

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. Contract ID Code Cost Contract		Page 1 Of 49	
2. Amendment/Modification No. 04		3. Effective Date 2004MAY05		4. Requisition/Purchase Req No. SEE SCHEDULE		5. Project No. (If applicable)	
6. Issued By TACOM WARREN BLDG 231 AMSTA-AQ-AHEB LEON WILSON (586)574-7192 WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL EMAIL: WILSONL@TACOM.ARMY.MIL		Code W56HZV		7. Administered By (If other than Item 6) DCMA DETROIT U.S. ARMY TANK & AUTOMOTIVE COMMAND (TACOM) ATTN: DCMAE-GJD WARREN, MI 48397-5000		Code S2305A	
				SCD A PAS NONE ADP PT HQ0337			
8. Name And Address Of Contractor (No., Street, City, County, State and Zip Code) GENERAL DYNAMICS LAND SYSTEMS INC. 38500 MOUND ROAD STERLING HEIGHTS, MI. 48310-3260 TYPE BUSINESS: Large Business Performing in U.S.				<input type="checkbox"/>		9A. Amendment Of Solicitation No.	
				<input type="checkbox"/>		9B. Dated (See Item 11)	
				<input checked="" type="checkbox"/>		10A. Modification Of Contract/Order No. DAAE07-01-G-N001/0010	
				<input type="checkbox"/>		10B. Dated (See Item 13) 2003DEC04	
Code 7W356		Facility Code					
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS							
<input type="checkbox"/> The above numbered solicitation is amended as set forth in item 14. The hour and date specified for receipt of Offers <input type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing items 8 and 15, and returning _____ copies of the amendments: (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.							
12. Accounting And Appropriation Data (If required) SEE SECTION G							
13. THIS ITEM ONLY APPLIES TO MODIFICATIONS OF CONTRACTS/ORDERS							
KIND MOD CODE: A It Modifies The Contract/Order No. As Described In Item 14.							
<input checked="" type="checkbox"/> A. This Change Order is Issued Pursuant To: 52.243-1 The Changes Set Forth In Item 14 Are Made In The Contract/Order No. In Item 10A.							
<input type="checkbox"/> B. The Above Numbered Contract/Order Is Modified To Reflect The Administrative Changes (such as changes in paying office, appropriation data, etc.) Set Forth In Item 14, Pursuant To The Authority of FAR 43.103(b).							
<input type="checkbox"/> C. This Supplemental Agreement Is Entered Into Pursuant To Authority Of:							
<input type="checkbox"/> D. Other (Specify type of modification and authority)							
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return _____ copies to the Issuing Office.							
14. Description Of Amendment/Modification (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) SEE SECOND PAGE FOR DESCRIPTION							
15A. Name And Title Of Signer (Type or print)				16A. Name And Title Of Contracting Officer (Type or print) JOHN REGENHARDT REGENHAJ@TACOM.ARMY.MIL (586)574-6973			
15B. Contractor/Offeror (Signature of person authorized to sign)		15C. Date Signed		16B. United States Of America By _____ /SIGNED/ (Signature of Contracting Officer)		16C. Date Signed 2004MAY05	
NSN 7540-01-152-8070 PREVIOUS EDITIONS UNUSABLE				30-105-02		STANDARD FORM 30 (REV. 10-83) Prescribed by GSA FAR (48 CFR) 53.243	

Except as provided herein, all terms and conditions of the document referenced in item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN DAAE07-01-G-N001/0010 MOD/AMD 04	Page 2 of 49
Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.		

SECTION A - SUPPLEMENTAL INFORMATION

1. This letter contract based on the terms and conditions set forth herein signifies the intention of the Department of the Army to execute a formal fixed price contract with you for the delivery of the supplies and the performance of the services as set forth in this Delivery Order DAAE07-01-G-N001/0010.
2. You are directed in accordance with FAR 52.216-23 entitled Execution and Commencement of Work and your signature in Block 15B on Standard Form 30 of this Modification, to proceed immediately to commence performance of the work, and to pursue such work with all diligence to the end that the supplies may be delivered or services performed within the time specified in Section F.
3. In accordance with the Special Provision clause H.14 entitled Contract Definitization, you shall submit a firm fixed price proposal for the articles and services covered by this letter contract, supported by a cost breakdown reflecting the cost elements outlined in part II of Table 15-2 in FAR 15.408 and any other information required herein. In accordance with FAR 15.406-2, you shall submit a certificate of Current Cost or Pricing Data upon agreement of contract price. Terms and conditions are negotiable.
4. Your signature in Block 15B on the Standard Form 30 of this Delivery Order DAAE07-01-G-N001/0010, Mod 04 indicate acceptance of the terms and conditions in this letter contract.
5. This letter contract is entered into pursuant to 10 U.S.C. 2304(c)(1) and any required justification and approval has been executed by the Government.
6. The contract funded amount and contract value are changed as follow:
- | | |
|-----------------------|---------------|
| Funded Amount: | \$ 41,235,572 |
| Amount Added: | \$ 80,520,428 |
| New Funded Amount: | \$121,756,000 |
| Contract Value: | \$ 41,235,572 |
| Contract Value Added: | \$202,764,428 |
| New Contract Value: | \$244,000,000 |
7. In accordance with Section G.4, all allowable costs incurred for labor and for material acquired under this Contract DAAE07-01-G-N001/0010 under Cost-no-fee CLINS 0001AA and 0001AB for Long Lead Materials for tank production and SEP/CEEP incorporation shall be treated as being acquired on a firm-fixed-price basis as if acquired solely under this contract on a fixed price basis for vehicles. In the event payments made to the Contractor under the LLM cost CLIN(s) exceed the limitations imposed by the Progress Payment Provision of this tank contract when the LLM is converted to vehicles, such payments will be adjusted to be in compliance with the Progress Payment Provision by submittal of an adjusting Progress Payment request at the end of a 60 day period following the execution of this modification incorporating the requirement for M1A2 SEP/CEEP Tanks under the vehicle CLINs. All material transferred upon execution of this letter contract modification to this contract shall revert to being Contractor Furnished Material as if acquired exclusively under the terms of a fixed price tank contract.
8. All terms and conditions established prior to the issuance of this Modification 04 are hereby deleted in their entirety and replaced by the terms and conditions set forth in this Modification 04.

*** END OF NARRATIVE A 005 ***

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AA	<p>SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS</p> <p><u>CEILING PRICE CLIN</u></p> <p>CLIN CONTRACT TYPE: Cost Contract NOUN: M1A2 SEP RETROFIT PRON: 473BVS0247 PRON AMD: 02 ACRN: AA AMS CD: 31206453021</p> <p>The combined amount under CLINs 0001AA and 0001AB is for 65 vehicles.</p> <p>(End of narrative B002)</p> <p><u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin</p> <p><u>Deliveries or Performance</u> DLVR SCH PERF COMPL <u>REL CD</u> <u>QUANTITY</u> <u>DATE</u> 001 0 31-JAN-2005</p> <p>\$ 90,305,766.00</p>		EA		\$ 90,305,766.00

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0001AB	<div>CEILING PRICE CLIN</div> <div>NOUN: M1A2 SEP RETROFIT PRON: 474BVS0147 PRON AMD: 03 ACRN: AB AMS CD: 31206453019</div> <div>The combined amount under CLINs 0001AA and 0001AB is for 65 vehicles.</div> <div>(End of narrative B002)</div> <div>Inspection and Acceptance INSPECTION: Origin ACCEPTANCE: Origin</div> <div>Deliveries or Performance DLVR SCH PERFORM COMPL REL CD QUANTITY DATE 001 0 30-JUN-2005</div> <div>\$ 31,450,234.00</div>		EA		\$ 31,450,234.00

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0002	SECURITY CLASS: Unclassified				
0002AA	<div>SERVICES LINE ITEM</div> <div>NOUN: DEPROCESSING</div> <div>Inspection and Acceptance</div> <div>INSPECTION: DestinationACCEPTANCE: Destination</div> <div>Deliveries or Performance</div> <div><div>DLVR SCH</div><div><div>REL CD</div><div>QUANTITY</div><div>DATE</div></div><div>0014331-MAR-2006</div></div> <div><div>DLVR SCH</div><div><div>REL CD</div><div>QUANTITY</div><div>DATE</div></div><div>0022230-SEP-2006</div></div>	65	LO		

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0003	SECURITY CLASS: Unclassified				
0003AA	<u>Option Quantity</u> NOUN: OPTION VEHICLES <u>Packaging and Marking</u> <u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin <u>Deliveries or Performance</u> DOC SUPPL <u>REL CD</u> <u>MILSTRIP</u> <u>ADDR</u> <u>SIG CD</u> <u>MARK FOR</u> <u>TP CD</u> 001 <u>DEL REL CD</u> <u>QUANTITY</u> <u>DEL DATE</u> 001 64 30-SEP-2006 FOB POINT: Origin SHIP TO: <u>PARCEL POST ADDRESS</u> (Y00000) SHIPPING INSTRUCTIONS FOR CONSIGNEE (SHIP-TO) WILL BE FURNISHED PRIOR TO THE SCHEDULED DELIVERY DATE FOR ITEMS REQUIRED UNDER THIS REQUISITION. <u>FREIGHT ADDRESS</u> SHIPPING INSTRUCTIONS FOR CONSIGNEE (SHIP-TO) WILL BE FURNISHED PRIOR TO THE SCHEDULED DELIVERY DATE FOR ITEMS REQUIRED UNDER THIS REQUISITION. <u>CONTRACT/DELIVERY ORDER NUMBER</u> DAAE07-01-G-N001/0010	64	EA	\$ <u> ** N/A **</u>	

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0004	SECURITY CLASS: Unclassified				
0004AA	<div>SERVICES LINE ITEM</div> <div>NOUN: DEPROCESSING - OPTION</div> <div>Inspection and Acceptance</div> <div>INSPECTION: Destination ACCEPTANCE: Destination</div> <div>Deliveries or Performance</div> <div><div>DLVR SCH</div><div><div>REL CD</div><div>001</div></div><div><div>QUANTITY</div><div>22</div></div><div><div>PERF COMPL</div><div>DATE</div><div>30-SEP-2006</div></div></div> <div><div>DLVR SCH</div><div><div>REL CD</div><div>002</div></div><div><div>QUANTITY</div><div>42</div></div><div><div>PERF COMPL</div><div>DATE</div><div>31-MAY-2007</div></div></div>	64	LO		

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Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0005AC	<div><div>Option Quantity</div><div>NOUN: TOTAL PACKAGE FIELDING OPTION</div><div>Packaging and Marking</div><div>Inspection and Acceptance<div>INSPECTION: DestinationACCEPTANCE: Destination</div></div><div>Deliveries or Performance<div>DOC SUPPL</div><div>REL CD MILSTRIP ADDR SIG CD MARK FOR TP CD</div><div>001</div><div>DEL REL CD QUANTITY DEL DATE</div><div>001 21 30-NOV-2006</div></div><div>FOB POINT: Destination</div><div>SHIP TO: PARCEL POST ADDRESS (Y00000) SHIPPING INSTRUCTIONS FOR CONSIGNEE (SHIP-TO) WILL BE FURNISHED PRIOR TO THE SCHEDULED DELIVERY DATE FOR ITEMS REQUIRED UNDER THIS REQUISITION.</div><div>FREIGHT ADDRESS SHIPPING INSTRUCTIONS FOR CONSIGNEE (SHIP-TO) WILL BE FURNISHED PRIOR TO THE SCHEDULED DELIVERY DATE FOR ITEMS REQUIRED UNDER THIS REQUISITION.</div><div>CONTRACT/DELIVERY ORDER NUMBER DAAE07-01-G-N001/0010</div></div>	21	LO	\$ ** N/A **	

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT					
0006	SECURITY CLASS: Unclassified									
0006AA	<u>SERVICES LINE ITEM</u> NOUN: TANK TABLE VIII SUPPORT <u>Inspection and Acceptance</u> INSPECTION: Destination ACCEPTANCE: Destination <u>Deliveries or Performance</u> DLVR SCH PERF COMPL <table><tr><td><u>REL CD</u></td><td><u>QUANTITY</u></td><td><u>DATE</u></td></tr><tr><td>001</td><td>43</td><td>31-MAR-2006</td></tr></table>	<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>	001	43	31-MAR-2006	43	LO	
<u>REL CD</u>	<u>QUANTITY</u>	<u>DATE</u>								
001	43	31-MAR-2006								

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AB	<div>SERVICES LINE ITEM</div> <div>NOUN: TANK TABLE VIII SUPPORT</div> <div>Inspection and Acceptance</div> <div>INSPECTION: Destination ACCEPTANCE: Destination</div> <div>Deliveries or Performance</div> <div><div>DLVR SCH</div><div><div>REL CD</div><div>QUANTITY</div><div>DATE</div></div><div><div>001</div><div>22</div><div>30-NOV-2006</div></div></div>	22	LO		

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AC	<div>Service Option</div> <div>NOUN: TANK TABLE VIII</div> <div>Inspection and Acceptance</div> <div>INSPECTION: DestinationACCEPTANCE: Destination</div> <div>Deliveries or Performance</div> <div><div>DLVR SCH</div><div><div>REL CD</div><div>001</div><div>QUANTITY</div><div>21</div><div>DATE</div><div>30-NOV-2006</div></div></div>	21	LO		

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
0006AD	<div><div><div>Service Option</div><div>NOUN: TANK TABLE VIII SUPPORT</div></div><div><div>Inspection and Acceptance</div><div>INSPECTION: Destination ACCEPTANCE: Destination</div></div><div><div>Deliveries or Performance</div><div><div>DLVR SCH</div><div><div><div>REL CD</div><div>QUANTITY</div><div>DATE</div></div><div><div>001</div><div>43</div><div>31-MAY-2007</div></div></div></div></div></div>	43	LO		

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT

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B.1 SECURITY REQUIREMENTS

B.1.1 BOA DAAE07-01-G-N001 Security Classification Specification DD Form 254, Attachment 004 is applicable to performance under this Delivery Order.

B.2 GOVERNMENT FURNISHED MATERIAL (GFM)

B.2.1 The Delivery Order prices exclude GFM. List of GFM to be provided to the contractor is provided in Attachment 001. Provision B.2 BOA DAAE07-01-G-N001 is applicable to this Delivery Order.

B.2.2 The Government will furnish the 16th year vehicles to be retrofitted.

B.2.3 For the purpose of allocating G&A cost, consistent with the Contractor's disclosed accounting practice, it is agreed that the value of non major end item GFM required for the scope of work is TBD per unit. The value of the GFM major end item is TBD per unit.

B.3 DELIVERY ORDER DATA REQUIREMENTS

B.3.1 The cost for data requirements listed on DD 1423, Exhibit A, is included in the Delivery Order amount and is not separately priced.

B.4 RESOLUTION OF DAMAGED/DEFECTIVE GOVERNMENT MATERIAL (DGM)

B.4.1. CLIN TBD entitled "Damaged/Defective Government Material (DGM)" is incorporated as set forth in the schedule for payment of equitable adjustments negotiated between the Contractor and the Administrative Contracting Officer (ACO) for the resolution of DGM actions under the Delivery Order prior to acceptance of tanks at the Lima Army Tank Plant (LATP).

B.4.2. The Contractor shall accomplish removal and replacement of DGM and provide a DGM Report in accordance with CDRL A001, (Data Item No. DI-QCIC-80736) whenever Government furnished items are unsuitable for use. Upon direction by the ACO, the Contractor shall remove contractor installed components, and perform all necessary work to return the inoperative Government furnished items to the supplier, including preparation for shipment, loading and unloading. To the maximum extent feasible, contractor installed components shall be re-utilized.

B.4.3. For those services provided hereunder, the Contractor shall invoice under the appropriate DGM CLIN as directed by the ACO, in accordance with the General Provision entitled Government Property (FAR 52.245-2 Alt 1). Shipping shall be in accordance with B.5. below. The Contractor will continue to separately invoice for the efforts performed under this provision.

B.4.4 This provision, Resolution of DGM, applies only to GFM (Attachment 001). This provision does not apply to contractor previously provided reused items that are commingled with other Production Programs. This provision does apply to those reused items that were previously provided as GFM. (Reference Provision B.2.2)

B.4.5. RESERVED.

B.5. PACKAGING, CRATING AND HANDLING

Packaging, crating and handling charges for end line items under the contract are included in the contract prices. From time to time, the Government may require shipment of materials and components furnished by the Government or acquired for the account of the Government in performance of this contract. When directed by the Administrative Contracting Officer, the contractor shall prepare such material for shipment and shall ship such property to the Government designated destination. The Contractor shall invoice, as directed by the ACO, for each individual transaction in accordance with the General Provision entitled "GOVERNMENT PROPERTY (FIXED-PRICE CONTRACTS)(DEC 1989)(FAR 52.245-2 ALT I), for such services under CLIN TBD of this contract, at the negotiated equitable price.

B.6. ENGINEERING CHANGE PROPOSALS (ECPs)

CLIN TBD is established as set forth in the schedule for payment of equitable adjustments associated with the incorporation of Engineering Changes into the Contract. Except those engineering changes contemplated by any Special Provisions Clause in Section H, each change shall be issued and equitably adjusted by the Contracting Officer pursuant to the General Provision entitled Changes - Fixed Price (FAR 52.243-1). The Contractor shall invoice under CLIN TBD as authorized by the Contracting Officer. Notwithstanding the Government's rights under FAR 52.243-6, Change Order Accounting, the Contractor may include the cost associated with the authorized effort under this CLIN in performance based payments submitted under the respective vehicle CLIN.

B.7. PRIORITY SHIPMENTS

The CLIN TBD entitled "PRIORITY SHIPMENTS" is established and funded for the payment of equitable adjustments for increased production costs under this contract resulting from Contractor compliance with the written direction of the Procurement Contracting Officer (PCO)

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to divert specifically designated parts and/or components to fill a Government need contracted for under some other contract. Such equitable adjustments shall be negotiated by the ACO. Any such diversion prioritization shall only be accomplished to the extent that those items are required under some spare parts contract(s) and have not yet been delivered. The Contractor shall only take action under this clause to the extent that the total maximum liability to the Government as a result of such contracting officer directions does not exceed the total funded amount under the applicable CLIN.

The following Terms and Conditions specific to Section B of the Basic Order Agreement (DAAE07-01-G-N001) are incorporated by reference into this Delivery Order DAAE07-01-G-N001/0010:

B-1 FAR 52.229-4000 APPLICABILITY OF FEDERAL RETAILERS EXCISE TAX (OCT/1993)
B.4 REQUIREMENTS INCLUDED IN DELIVERY ORDER PRICES

*** END OF NARRATIVE B 002 ***

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SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

C.1 General

C.1.1. The M1A2 Production Program is designed to upgrade M1A2 Tanks, Abrams 16th, 17th and 18th Year, to attain the upgraded operational characteristics of a M1A2 SEP Abrams Upgrade Tank with Continuous Electronic Enhancement Program (CEEP) Line Replaceable Units. To achieve that end, selected enhancements/ECPs will be incorporated into M1A2 tanks inducted into the program. With the exception of the new CEEP components and the Block I 2nd Generation FLIR, tanks delivered under this contract will be similar, but not identical, to new production M1A2 SEP tanks produced under contract DAAE07-01-G-N001/0003. As a secondary objective, inducted tanks will be restored as nearly as possible to original or new condition in appearance, performance and life expectancy, accomplished through disassembly, inspection of all components and repair/replacement of worn or unserviceable items using original manufacturing tolerances and specifications as further defined in this scope of work. To rebuild the tank to "like new" condition will increase readiness and reduce Operations & Support (O&S) cost.

C.1.2. The program will utilize the expertise of both the Army depot system and the Contractor. The Contractor, as an independent contractor and not as an agent of the Government, will overhaul suspension components, assemble chassis and turret, perform vehicle and system testing, refurbish and upgrade certain common components, integrate SEP unique Line Replaceable Units (LRU), and paint, prep at Lima Army Tank Plant (LATP) and load vehicles on Government furnished rail cars. The contractor, teaming with ANAD, shall upgrade 16th, 17th and 18th year M1A2 AUT's to meet essential operational characteristics of M1A2 SEP/CEEP tanks.

C.1.3 The contractor shall also provide deprocessing and total-package-fielding (TPF) services and material for each squadron of the 3rd ACR.

C.2. SYSTEMS RESPONSIBILITY AND CONFORMANCE WITH SPECIFICATIONS

C.2.1. Under this contract, the contractor has total systems responsibility to assure that the integrated M1A2 SEP/CEEP system meets the system specification (C.2.2), prime item fabrication specification (C.2.4), LRU product fabrication specifications (C.2.5), transmission requirements (C.2.6), and Interface Requirements (C.2.7) as described below. The contractor shall upgrade the M1A2 AUTs provided by the Government to the M1A2 SEP with the CEEP LRU/Block I 2nd Gen FLIR TDP baseline defined at Section C.3.1. The Government's means of evaluating vehicle performance will be through First Article Tests, the Final Inspection Record (FIR), vehicle control tests, and the Follow-on Vehicle Verification Testing (described in Section E).

C.2.1.1 This program will produce a vehicle as nearly as possible to original or new condition in appearance, performance, and life expectancy through complete disassemble, inspection of all components, and repair/replacement of worn or unserviceable items using manufacturing tolerance and specifications. The contractor shall accomplish the upgrade required by C.2.1 by utilizing a combination of new components, refurbished components, and GFM.

C.2.1.2 The contractor responsibility for compliance of the M1A2 SEP/CEEP system with the contract specifications does not include the following:

- (a) Government Furnished Material (GFM, those items on Attachment 001)
- (b) components provided by Anniston Army Depot (ANAD)(except for any contractor-furnished material contained within those components);
- (c) use-as-is items, which are referred to as reclaimed-in-assembly items in the GDLS/ANAD workshare agreements;
- (d) pre-existing system specification non-conformances that are identified in Attachment 010 and Attachment 011; and
- (e) all previous Contracting Officer approved waivers or deviations are incorporated by reference.

This does not relieve the contractor of his obligation under total systems responsibility, as defined by Section C, to work with the applicable Government organization(s) to proactively assess and recommend solutions to eliminate potential GFM issues, and/or recommend corrective action plans for problems discovered during FIR-acceptance, vehicle-control, and follow-on Vehicle Verification Testing.

If the Government determines that the failure to meet any of the specifications was a result of any of C.2.1.2 (a) (e) above, the Government shall be responsible for the corrective action. Any Government determination of responsibility for corrective action is subject to the Disputes clause of the contract.

C.2.2 System Specification Compliance and Performance Responsibility

C.2.2.1 The contractor shall meet all performance requirements of the M1A2 SEP System Specification SA-SA0001C, dated 31 July 1998 with the exception of C.2.1.2. (a) through (e) above and C.2.2.2 below.

C.2.2.2 The parties recognize that there are three non-recurring design projects, CEEP, the integration of the Block I Improvement to the 2Gen FLIR, and the replacement of the IFCEU DPC and APC cards that are underway concurrently under Systems Technical Support (STS)

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Contract DAAE07-01-C-N075.

The Government will continue to fund the design and test of CEEP, the integration of the Block I Improvement to the 2nd Gen FLIR, and the IFCEU (DPC and APC cards) under the STS contract. Upon successful completion of appropriate tests as defined in H.5.1.13, the contractor is completely responsible under this contract for the CEEP, Block I integration, and IFCEU DPC and APC integration meeting this system specification with the exception of C.2.1.2 (a) through (e).

C.2.2.2.1 Integration of Block I Improvement to 2nd Gen FLIR.

a. The contractor is not responsible under this production delivery order for the integration of the Block I improvement meeting the following requirements of the system specification until full compliance has been demonstrated in system testing of the integration design under STS Contract DAAE07-01-C-N075:

- System Specification Paragraph 3.1.6.2.10 Second Generation FLIR
- System Specification Paragraph 3.1.6.2.10.1 (Reserved)
- System Specification Paragraph 3.1.6.2.10.2 TIS
- System Specification Paragraph 3.1.6.3.3 CITV/TIS Provisions
- System Specification Paragraph 3.1.6.3.3.1 Mechanical Interface
- System Specification Paragraph 3.1.6.3.3.2 Processing Resources
- System Specification Paragraph 3.1.6.3.3.3 Displays

b. If the testing of the integration does not demonstrate full compliance and the Government elects not to fund the correction of the design, the contractor is responsible under this production delivery order for providing and maintaining the same level of compliance with the above requirements demonstrated in test.

c. The Government will fund the STS contract, provide GFM, and conduct the system test.

d. After successful completion of the above testing, the only Block I-integration costs the Government will fund under the STS contract are those to complete the logistics documentation of the baseline design.

C.2.2.2.2 CEEP.

a. The contractor is responsible under this contract for the new CEEP components meeting the requirements of the system specification as described below.

b. The Government shall be responsible under STS Contract DAAE07-01-C-N075 for the non-recurring design and testing necessary for the six new CEEP LRUs to meet the requirements of the system specification.

c. GDLS shall be responsible under this production delivery order for the production hardware costs of the six CEEP components - including any hardware rework or replacement - required to meet the requirements of the system specification.

d. If the testing of the requirements is not successful and the Government elects not to fund the correction of the design, the contractor is responsible under this production delivery order for providing and maintaining the same level of compliance with the requirements of the system specification demonstrated in test.

e. The Government will fund the STS contract (including component-level qualification test) and conduct the system-level test of the CEEP components.

C.2.3 Follow-on Vehicle Verification Testing.

C.2.3.1 Follow-on Vehicle Verification Testing shall be performed by the Government in accordance with E.11

C.2.3.2 The contractor shall refurbish all selected test vehicles prior to deprocessing and final inspection at the fielding site. If any GFM items identified on Attachment 001 are required for the refurbishment, the Government shall provide them. The selected refurbished test vehicles shall meet Part II of the SPAID as required in Section E.

C.2.4 Prime Item Fabrication Specification

The M1A2 tanks upgraded to the M1A2 SEP/ with the CEEP LRU tank configuration shall comply with the Prime Item Product Fabrication Specification for the Tank, Combat, Full-TrackeD, 120MM Gun, SC-SA10010, Rev. F, dated 23 April 2002, and Contracting Officer approved changes, waivers, and deviations.

C.2.5 LRU Product Fabrication Specification

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LRUs supplied by the contractor, either new, SEP refurbished or upgraded to the M1A2 SEP with the CEEP LRU configuration, shall comply with the LRU Product Fabrication Specifications listed in Attachment 003 as demonstrated by Government and Contractor testing completed as of the date of execution of this contract, or as may be amended by completion of additional testing and documentation by future test report(s) and endorsed by a Contracting Officer approved Change to this contract. Until a LRU Product Fabrication Specification performance level is demonstrated, the Contractor may approve changes to the LRU Product Fabrication Specification by Request for Waiver/Request for Deviation (RFW/RFD). Upon demonstration that the LRU meets its Product Fabrication Specification or determination of the level of conformance to the Product Fabrication Specification, the Contractor must have approval of the Procuring Contracting Officer to lower the demonstrated performance of the LRU.

C.2.6 FORMER GFM CONVERTED TO CFM

C.2.6.1 The contractor shall provide as CFM the items listed below. These components provided by the contractor shall maintain the same level of performance provided by the Governments version of these components when they were provided to the contractor under DAAE07-01-G-N001/0009 as GFM. If refurbished, the contractor shall refurbish the item to the same standard as the GFM item under DAAE07-01-G-N001/0009.

TRANSMISSION

GAS
GTR
ELRF

C.2.6.2 All transmissions provided to the contract shall have a serial number ending with a suffix U signifying a previous upgraded transmission.

C.2.7 Interface Requirements

C.2.7.1 The M1A2s upgraded to the M1A2 SEP with the CEEP LRU configuration shall comply with the Government Furnished Selective Availability Anti-Spoofing Module (SAASM) to the extent demonstrated regarding the required Form, Fit and interface requirements.

C.2.7.2 The M1A2s upgraded to the M1A2 SEP with the CEEP LRU configuration shall comply with the Interface Control Document for the FBCB2 Platform ICD (v3.5) JVIF01011, Rev E-1, dtd 29 April 2002 to the extent demonstrated and documented in Government and Contractor testing.

C.2.7.3 The M1A2s upgraded to the M1A2 SEP with the CEEP LRU configuration shall comply with the Form and Fit requirements necessary to enable Abrams System functionality with the Single Channel Ground Airborne Radio System (SINCGARS) RT-1523E(C), and the Enhanced Position Location Reporting System/Very High Speed Integrated Circuit (EPLARS/VHSIC) to the extent demonstrated and documented in Government and Contractor testing.

C.2.7.4 The M1A2s upgraded to the M1A2 SEP with the CEEP LRU configuration shall comply with the following Interface Control Documents (ICD) for the Block I Improvement to the 2nd Generation FLIR:

- a. CITV ICD, #12987750, Date 6 Apr 2004
- b. TIS ICD, #12987745 Date 6 Apr 2004
- c. B-Kit ICD, #A3298946, Date 5 Apr 2004

C.2.8 Software Corrections.

a. The Government will fund under STS Contract 01-C-N075 the non-recurring design and test of SW Versions 3.6.0 and 4.0.1. Upon successful completion of this testing, the contractor shall be responsible for the contract specifications except for pre-existing STRs (see Attachment 011). If the software does not demonstrate full compliance and the Government elects not to fund the correction, the contractor is responsible under this production delivery order for providing and maintaining the same level of compliance demonstrated in test.

b. For contractor SW changes and corrections, the contractor shall perform all necessary testing of the software change/correction and shall document his changes/corrections by providing under this contract all of the software documentation required by STS contract DAAE07-01-C-N075 for software changes. Furthermore, contractor software changes and corrections require a safety release of the new software by TECOM prior to fielding the tank to user units, and the contractor is responsible for paying for the testing including all TECOM costs. If the Government is concurrently performing system testing of and documenting its own software changes, the contractor may piggyback the system testing and documentation of his changes and corrections on those of the Governments (i.e. the contractor does not have to pay these nonrecurring costs in this case) provided that this will not delay or interfere with the Governments schedule.

C.2.9 Contractor Changes: Technical Data. The contractor shall document all contractor corrections and changes to the baseline hardware and software by developing and delivering to the Government the data and documentation required by C.22.

C.3 Engineering Release Record

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C.3.1. The inducted vehicles are the M1A2 Abrams 16th, 17th and 18th year vehicles. The M1A2 SEP technical baseline is that described in Exhibit B (GDLU6330, dated: 14 April 2004), and modified by the Engineering Change Proposals and Contractor approved Change Requests. The technical baseline also includes the changes necessary to integrate the Government-provided Block I 2nd Generation FLIR and the AEGR SAASM.

C.3.2 The software technical baseline is Version 3.6.0

C.4 Reserved

C.5. CONFIGURATION CONTROL

C.5.1. The Government shall be notified electronically of all proposed Contractor changes, which includes waivers and deviations. Any changes reducing demonstrated performance of the LRU Product Fabrication Specifications listed in Attachment 003 or impacting system supportability, field test equipment or logistics support products may be disapproved by the Procuring Contracting Officer within 10 working days after electronic notification of the proposed Change. The Contractor is to FLAG these ECP/CR/RFW/RFD's requiring Procuring Contracting Officer approval with a distinct COVER PAGE/electronic NOTICE in accordance with data item A002 DD Form 1423.

C.5.2. Contractor RFD/RFWs to Government configuration controlled items listed in Clause C.2.2 of BOA DAAE07-01-G-N001 require TACOM Contracting Officer (PCO) approval unless specifically delegated. These RFD/RFW's shall be submitted to the PCO in accordance with CDRL A002 of this Delivery Order. The Contractor is to FLAG these ECP/CR/RFW/RFD's requiring Procuring Contracting Officer approval with a distinct COVER PAGE/electronic NOTICE.

C.5.3 Any changes developed under this contract by the contractor as corrections (C.2.8 and C.2.9) or in accordance with delegated responsibility for configuration management in paragraph C.5.1 that are identified as contractor Change Requests shall be completed under this contract. This includes the preparation and delivery of all engineering, software, quality-assurance, packaging, and logistics data for contractor corrections and contractor changes (Change Requests) required by C.22.

C.5.4 Incorporation of Government ECPs into vehicles at other than job #1 shall be recorded and reported to the Government in accordance with data item A003 DD Form 1423, Exhibit A of the Contract entitled ENGINEERING ACCOUNTING and ENGINEERING RECORDS (ECAR).

C.5.5 When a waiver or deviation is issued and authorized for a new part number being utilized in the reclamation process, the new part number-authorizing document is valid coverage for usage in the reclaimed component. No other document need be generated.

C.5.6 When a M1A2 SEP production waiver or deviation is authorized for a production LRU base part, for purposes of this contract, the corresponding reclaimed manufacturing designated part number (base + S-18 suffix) shall be authorized. No other document need be generated.

C.6. VEHICLE PAINT COLOR

C.6.1. The vehicle shall be painted TAN 686A Color Chip No. 33446 of Fed-STD-595.

C.7. FUEL AND LUBRICANTS

C.7.1. Fuels and lubricants used for vehicle break-in and acceptance tests shall be as set forth below.

C.7.2. Fuel, JP-8, MIL-DTL-83133, NATO Code No. /Grade F-34 (JP-8) or equivalent. The contractor is authorized to add a leak detector to the fuel provided the leak detector is of a non-staining type.

C.7.3. Oil.

- a. Transmission/Final Drive Oil MIL-PRF-21260
- b. Engine Oil/Lubrication High Temperature Stability (HTS) MIL-PRF- 23699 Class HTS
- c. Shock Absorber Oil MIL-PRF-23699 Class HTS or C/I

C.8 Reserved.

C.9 VEHICLE WEIGHT MANAGEMENT

C.9.1. The Contractor shall weigh one vehicle as produced in its "as produced" configuration, excluding Basic Issue Items (BII). The Contractor shall maintain a record of that weight. The record shall include the amount of fuel in each cell as indicated on the fuel gauge and list "ship short" items.

C.9.2. Notification of weighing shall be provided to the Government in sufficient time to allow a LATP Quality Assurance Government

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representative to be present.

C.10 PULL TEST, RUBBER BONDING

C.10.1. Certain installation drawings call out a pull test on rubber bonded items during assembly operations. These tests will not be made due to the destructive nature of the test. In lieu thereof, a laboratory test coupon/specimen will be utilized for each lot of adhesive received to test the application of the adhesive.

C.11 PASSIVATION SPECIFICATION

C.11.1. The substitution of Passivation Specification ASTM-A380 or ASTM-A967 for AMS-QQ-P-35, for passivation of corrosion resistant steel, is authorized on an as required basis.

C.12. WELDING AND BRAZING

C.12.1. Welding of armor steel shall be performed in accordance with Specification SD-X12140 or MIL-STD-1941 and applicable weld procedures. Suggested welding techniques not described as mandatory in the specification/welding procedures shall be considered optional.

C.12.2. Repair of welds for defects on armor steel plate shall be performed per SD-X12140 and for Class C defects on armor steel castings per Appendix B MIL-A-11356, SD-X12140 and applicable welding procedures.

C.12.3. Repair of vendor weldments on ferrous and non-ferrous metals shall be performed per applicable specifications or Contractor's approved repair procedures.

C.12.4. Welding Wrought Aluminum Armor shall be performed per Specification MIL-STD-1946 or, applicable, MIL-W-45206.

C.12.5. In the interest of eliminating redundant welding qualifications and/or procedure approvals for contractor personnel or suppliers, the Contractor is authorized to waive qualifications and /or procedures approvals otherwise required under this contract if its personnel or suppliers have been qualified or have procedure approvals under other DOD or Government approved welding specifications that meet or exceed the requirements under this contract. Qualified suppliers are those suppliers that have successfully passed Quality or First Article Testing under this Delivery Order or another Government contract where there has not been a break in production. If a supplier is performing to an equivalent or higher quality specification than that called out in this Delivery Order the contractor is authorized to waive the lower quality specification.

C.12.6. The contractor shall be responsible for all welding process approvals (procedures, samples, etc.) in accordance with the Contractor's approved Quality Program.

C.12.7. With regard to all welding specifications, visual weld inspection shall be performed in accordance with SD-X12140D.

C.12.8. Welding procedures that require Government approval by the applicable specification shall be approved instead by the Contractor.

C.12.9. Soldering shall be in accordance with either MIL-STD-2000A, TACOM soldering process specification 11655194, ANSI/J-STD-001A or other commercial soldering standards with the contractors approval.

C.12.10. With regard to all welding specifications and standards, the following statement applies:

If joint configuration, weld process, and materials have not changed then previously submitted and accepted ballistic test samples, workmanship specimens, and welder qualifications under the applicable qualification requirements of welding specifications SD-X12140, MIL-STD-1261 and MIL-W-45206 are applicable.

C.13. SCOPE OF WORK - Production of 16th, 17th, & 18th Year Vehicles

C.13.1 M1A2 Inductions AT ANAD

C.13.1.1. ANAD will receive vehicles in as-is, but complete condition, remove turrets & disassemble hulls and turrets, clean, and evaluate inducted vehicles for any missing items which are required for refurbishment or upgrade. The Government will be responsible for providing any needed missing items. ANAD will inspect inducted vehicles and utilize established safety and environmental protection procedures. The contractor shall ship components (Attachment 004) for refurbishment to the reclaim sites described in the contractor's GDLS 16th, 17th and 18th year parts listing workshare document and ANAD will refurbish the turret, hull, cannon, engine, and final drive at ANAD and ship the balance of the components. The GDLS/ANAD workshare agreements, in accordance with the Contractor's letters MPA 03-1389, 16th Year Retrofit Workshare Plan Rev. D dated 9/26/2003, and MPA 03-1516, 17th Year Initial Release and Revision C 18th Year are incorporated into this contract by reference.

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C.13.1.2. The Contractor shall remove, "grind off" the old serial numbers and registration numbers from all SEP Retrofit vehicles.

C.13.2. Disassembly of M1A2s

C.13.2.1 Disassembly: ANAD will disassemble the tank, and ANAD and the Contractor shall disassemble all components in accordance with the intent of accepted Government TMs, DMWRs and/or Contractor procedures.

C.13.2.2 Disposal: The Government will provide disposition instructions for all items removed from vehicles that are determined to be unusable using existing ANAD and Contractor disposal procedures. Packaging, crating, handling and shipping costs will be authorized in accordance with provisions B.4. and B.5. The Government will provide any required specialty containers required for such shipments. The Contractor shall dispose of scrap material IAW the applicable manufacturing operation/instruction sheet(s).

C.13.3 Refurbishment and Re-use.

C.13.3.1 ANAD will disassemble the vehicles and will remove all components, except for armor. ANAD and the Contractor shall disassemble components deemed reusable and shall clean, paint, modify as necessary, reassemble, inspect, and reinstall them. The components that ANAD will refurbish are indicated in the contractor's LATP 16th, 17th and 18th year parts workshare listing document by "ANAD" in the "Reclaim Site" column.

C.13.3.2 ANAD will transport refurbished components that it has refurbished to LATP while GDAO will transport other components (Attachment 004) requiring upgrade by the Contractor and its suppliers back to the appropriate facility. ANAD will inspect and refurbish the gun tubes on all inducted vehicles.

C.13.4 Assembly of Production SEP/CEEP Vehicles at LATP

C.13.4.1. The Contractor shall assemble GFM components ("use-as-is (i.e., reclaimed-in-assembly) and refurbished) received from ANAD, contractor furnished material, both new and refurbished and Government Furnished Material (GFM), both new and refurbished, to upgrade the inducted M1A2 tank into a like new M1A2 SEP/CEEP tank.

C.13.4.2 The Contractor shall also prep and load shipments of completed M1A2 SEP/CEEP tanks.

C.13.5. Government Furnished Material:

C.13.5.1 GFM for the 16th, 17th and 18th year vehicles is listed on Attachment 001.

C.13.5.2 GFM Germanium Windows. The Government shall provide used Germanium windows to the Contractor for use in manufacture of M1A2 Retrofit SEP/CEEP tank Germanium Windows Retrofit. The quantities to be provided are 1.2 reclaimable Germanium windows for each deliverable vehicle or a total of 78 each germanium windows for 65 each deliverable vehicles, part number: 12466940 recovered from M1 tanks. If any additional Germanium is needed to complete the Contract, the contractor may request additional GFM Germanium Windows to fill the shortage.

C.13.6 Parts Support

C.13.6.1 The contractor shall furnish all material (not provided by ANAD and GFM) required by ANAD in accordance with ANAD's required delivery dates necessary to refurbish its pieces and components including those identified 'drop out' quantities on refurbished components. Part requirements will be defined through the list of materials to be procured for Anniston Army Depot as referenced in Bills of Material 16th Year ANAD DROPOUT_Rev N, dated 3/24/04 and TBD for 17th & 18th Years ANAD Dropouts. However, the Contractor is not required to provide any material for ANAD to either refurbish or replace GFM components, the cannon, and the main gun mount assembly. ANAD shall, by thirty (30) days after contract award, provide the Contractor a mutually agreeable delivery schedule identifying what parts will be required and when the parts will be required. Parts procured under this contract and provided to ANAD shall be used on this program only. The Contractor agrees to cooperate with Anniston Army Depot to purchase and provide the list of materials to meet the ANAD schedule.

C.13.6.2 In the event that any material the Contractor requires is no longer being produced by any of GDLS' subcontractors or is otherwise not available within allowable lead times, the Contractor is authorized to purchase this material from the Government Supply System subject to the Item Managers approval.

C.13.6.2.1 Anniston Manufacturing Responsibility. For production of these vehicles, Anniston Army Depot will provide the following GFM:

Part Number	Item
12528312	Bore Evacuator
12529685	Handle
12529532	Cap, Contact

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12529570

Contact Pin Assembly

C.13.6.3. In the event that any material provided to the Contractor by the Government is found to be unusable, it is Government's responsibility to replace / repair the unusable component.

C.13.6.4. The contractor is authorized to ship parts to and from ANAD under this and any other of the Delivery Orders under DAAE07-01-G-N001 in a single shipment.

C.13.7 Inventory Control System (ICS) at ANAD

C.13.7.1 The contractor shall implement an Inventory Control System at ANAD for the material provided to ANAD by the contractor. The ICS shall be responsible for the receipt of material, storage, warehousing in a Government provided building and shall track the pick issued material and distribution to ANAD.

C.13.7.2 The contractor shall complete his implementation of the ICS within 4 months of the Government provided building being provided at ANAD. The contractor is responsible for facilitizing the Government provided building.

C.14 Pollution Prevention Plan and Environmental Requirements

C.14.1. The contractor's activities under this contract shall be in accordance with the Contractor's approved Pollution Prevention Plan, which is incorporated into this contract by reference.

C.15 Contract Data Requirements

The Contractor shall prepare technical data and financial reports in the format and scope specified and furnished with the Contract Data Requirements List, DD Form 1423 (Exhibit A). This information shall be furnished in accordance with the requirements, quantities and schedules set forth in the Electronic Contract Data Requirement List. All data, including ECARDS data, is to be submitted electronically to the Government, reference FAR 52.204-4009 (TACOM) MANDATORY USE OF CONTRACTOR TO GOVERNMENT ELECTRONIC COMMUNICATION JUN/1999, unless specifically directed otherwise in the data item.

C.16 First Article Test (FAT) Requirements

C.16.1 The Contractor has included in his ceiling price FAT costs for Transmission, ELRF, GAS, and GTR. However, the contractor must obtain written permission from the Procuring Contracting Officer before proceeding with FAT. The need for and extent of FAT will be mutually determined during definitization discussions.

C.17 Reserved.

C.18 SOFTWARE LICENSING

C.18.1 The contractor shall be responsible for acquiring Production Software Licensing and any ancillary support equipment for all Abrams vehicles under this contract. The Government shall be given Government Purpose rights. The term ancillary support equipment includes, but is not limited to, training equipment, test equipment, and software loader/verifiers. Licenses to be purchased from BAE System, Seaweed, and Radstone.

C.19 DEPROCESSING/TOTAL PACKAGE FIELDING

C.19.1. The contractor shall assist the USG as contractually required in the preparation, coordination, revision, approval, and implementation of a New Materiel Introductory Briefing (NMIB), Material Fielding Plan (MFP), Material Fielding Agreement (MFA) and Detailed Fielding Agreement (DFA), Material Requirements List (MRL) scrub, a site survey, and during fielding coordination. The Memorandum of Notification (MON) will be prepared by the USG and the USG will provide a Fielding Schedule. The USG is responsible for negotiations should the proposed sites be unacceptable. Obtaining facilities for deprocessing and fielding will be the responsibility of the USG.

C.19.2 The contractor shall obtain document numbers from the PM Combat Systems document register for each package as required.

C.19.3 TPF Items. The contractor shall provide at time of hand-off all Total Package Fielding (TPF) items to include: Authorized Stockage List (ASL), Prescribed Load List (PLL) items (Attachment 007) (Note Attachment 007 will be updated by definitization. The items listed in the attachment represent the present, non-CEEP SEP Tank production configuration. If the 3rd ACR configuration has a new version of these items (e.g., CEEP, Block I Improvement to the FLIR), the contractor shall provide the new version of the item in the quantities specified.), Technical Manuals, Components of End Item (COEI) (Attachment 008), and the End Item. If material is no longer available from a vendor or is not available within the required leadtimes, the contractor may, subject to the conditions in C.13.6.2 and H.19, buy items for the above from the USG supply system. The Government will provide STTE (identified in Attachment 009), which the contractor will include in the TPF package.

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C.19.4 The contractor shall assemble TPF items prior to issue. The contractor shall notify the Basic Issue Items (BII) Refurbishment Program at Camp Shelby, MS of the date BII is required at the fielding site and the quantity required.

C.19.5 The contractor shall establish and maintain all information, documents, associated reports and/or automated databases relative to the TPF process for the duration of the contract. The contractor shall obtain requisition status from the Logistics Information Data Base (LIDB)

C.19.6 If the contractor elects to order from the Government supply system, he shall submit A0A transactions to the wholesale supply system through DAMES to initiate requisitions for the materiel from government sources. The contractor shall monitor TPF package buildup and shall provide the USG access to TPF status reports.

C.19.7 The contractor shall update their TPF package database and generate Weapon System Package Hand Receipts to support Unit Set Fielding. The contractor shall prepare a call forward letter for the TPF package in advance of the required delivery date (RDD).

C.19.8 Reserved.

C.19.9 Reserved.

C.19.10 TPF material will undergo a joint inventory and inspection for count and condition during the hand off. Discrepancies will be noted on the applicable USG forms. The contractor shall generate the appropriate Customer Documentation Package to transfer equipment accountability to the gaining unit and close out the supply systems transactions. The contractor shall assist the gaining unit with the processing of the Customer Documentation Package.

C.19.11 The contractor shall occupy and establish operations at the fielding site to receive tanks and begin the deprocessing of those tanks. The contractor shall be responsible for the off-loading of all tanks arriving at the fielding site in a timely manner so as to avoid demurrage charges. The contractor is responsible for the movement of the tanks from the site of receipt to the deprocessing site.

C.19.12 Final Inspection Prior to Issue. The contractor shall download software 4.0.1, deprocess vehicles and make them ready for issue. A final Quality Assurance (QA) inspection shall be conducted by the contractor and witnessed by the Government within a week before issue of the vehicle to insure that the vehicle continues to meet the inspection criteria of the SEP Deprocessing Checklist (Attachment 012) and is able to be issued in that condition. All vehicle subsystems, communications, shall be checked out and determined to be fully operational during deprocessing and final QA. The contractor shall support an S/IC3 Connectivity check to be performed by unit personnel on M1A2 SEP tanks to include an Upper Tier (Battalion to Company Commander level). The contractor shall clean all vehicles, both inside and out, prior to issue of the vehicle. No earlier than 30 days prior to issue, the contractor shall conduct borescope, recoil exercise, bore sight, and plumb and synchronization of the gun tube as well as Army Oil Analysis Program sampling. Documentation of these checksshall be recorded and maintained onDA Form 2408-4 (Weapons Record Data Card) and DA Form 2026 (Oil Analysis Request) in the vehicle equipment record folder for presentation to the gaining unit on the day of issue. The basis of final Government acceptance of the vehicle via DD 250 shall include accomplishing all of the above tasks.

C.19.13 The contractor shall issue tanks in squadron sets with company sized sets of vehicles issued consecutively. BII, Operator's Manuals, STTE and PLL for the receiving unit shall be issued on the same day as tanks are issued.

C.19.14 BII. The contractor and the assigned tank crew will conduct a joint inventory of each BII box for accountability and serviceability. The contractor shall provide previously prepared Hand Receipts for the tank crews and unit supply personnel to conduct the joint inventory. The contractor shall fill out a Report Of Discrepancy (ROD) to Rock Island Arsenal (RIA) for M1A2 SEP BII shortages/unserviceables.

C.19.15 Parts Support Through TT VIII Training. The contractor shall provide all repair parts and the labor to install those parts through the day of tank issue. The contractor shall continue to provide repair parts only for items which fail as a result of normal wear and tear through the completion of Tank Table VIII (TT VIII). The contractor shall also repair components at the fielding site through the use of a DSESTS to be provided by the USG. The contractor shall conduct a joint closeout DA 2404/5988E upon completion of TTVIII for the M1A2 SEP tank. This close out documentation will establish any final parts owed the unit based on quantities of parts consumed during the fielding process.

C.19.16 The contractor shall develop and maintain a matrix detailing configuration of each tank and as that configuration changes due to MWOs, etc. through hand-off.

C.19.17 The contractor shall maintain working areas and issue yards IAW post, Camp and Station Regulations. The contractor shall also segregate and turn-in all recyclable trash. The contractor shall also process and turn-in unserviceable and/or obsolete CL IX repair parts.

C.20 Reserved.

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C.21 Storage

C.21.1 Storage: M1A2 SEP/CEEP Tanks delivered under this contract may require storage prior to hand-off per the fielding/delivery schedule in Section F. The contractor may store tanks at LATP. If any GFM used during the storage of AIM vehicle is still available, the contractor is authorized to use this GFM.

C.21.2 The contractor shall protect, maintain, and preserve any tanks in storage in order to insure that they are available and suitable for hand-off per the fielding schedule.

C.22 Data for Contractor Changes and Corrections. (Note: this section will be replaced at definitization by a mutually agreeable specific statement of work and a full Contract Data Requirements List).

C.22.1 The contractor shall provide under this contract the data documenting all contractor changes and corrections generated under this production contract, whether hardware or software, that would be required if these changes were Government-directed ECPs under STS Contract DAAE07-01-C-N075. All data delivered shall accurately depict and reflect the change and shall meet the applicable requirements of Contract 01-C-N075.

C.22.2 The data required to document a change will depend on the nature of the change and may include but not be limited to the following:

- C.22.2.1 Engineering Data.
- a. Drawings;
 - b. Specifications.

The contractor shall deliver engineering data in place in the contractors ECARD system, to which the Government shall have access. All drawings prepared under this contract shall be adequate for competitive acquisition. The contractor shall provide all the work necessary to incorporate the changes into the drawing package.

- C.22.2.2 Quality Assurance
- a. Quality Assurance Provisions (QAPs)/Requirements (QARs);
 - b. Inspection Method Control Sheets (IMC);
 - c. Final Inspection Record (FIR) Revisions;
 - d. Item Modification Inspection Requirements;
 - e. QAPs and QAPs for Depot Maintenance Requirements (DMWRs)
 - f. Quality Assurance Inspection Equipment (QAIE) design, instructions and software.

The contractor shall deliver Quality Assurance data in place in the contractors ECARDS system, to which the Government shall have access.

C.22.2.3 Software Documentation.

The contractor shall prepare and deliver in ECARDS the software documentation required by the Software Development Plan approved by the Government under STS Contract 01-C-N075.

C.22.2.4 Logistics Data.

The contractor shall prepare and deliver logistics data as required by STS Contract 01-C-N075.

- a. Logistics Support Analysis Record (LSAR);
- b. Maintenance Allocation Chart;
- c. Provisioning Data;
- d. Packaging Data;
- e. Training Materials and Equipment; and
- f. Technical Manuals.

C.22.3 Delivery Schedule. The contractor shall complete and deliver all data documenting a contractor change generated under this contract not later than the hand-off date of the first squadron whose configuration contains the change.

All Terms and Conditions specific to Section C of the Basic Order Agreement (DAAE07-01-G-N001) are incorporated by reference into this Delivery Order DAAE07-01-G-N001/0010.

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SECTION D - PACKAGING AND MARKING

SECTION D

PRESERVATION/PACKAGING/MARKING

D.1. PRESERVATION/PACKAGING/PACKING

D.1.1. ABRAMS SERIES TANKS. The Abrams Series Tank Vehicles shall be preserved and processed for shipment with drive-on/drive-off capability in accordance with SD-X10005; and as delineated in Abrams Systems Security Classification Guide dated 25 July 1997.

D.1.1.1. Batteries - Vehicles shall be shipped with production batteries installed and with all required hardware attached, but not connected to the battery posts. Battery and electrolyte shall be in conformance with the requirements of SD-X10005, par 3.10.2.

D.1.2 Special Containers

No special reusable containers will be procured under this contract. Special containers used for the shipment and storage of GFM shall be promptly returned to the place of origin or location(s) specified by the ACO at Government expense. Special Containers include, but are not limited to the following:

- Metal Racks for Gun Tubes
- Gun Mount Racks
- Metal containers for AGT 1500 Engine
- Metal Skids for X1100-3B
- ISOPOD Containers for Hughes Fire Control Components

The Terms and Conditions and contract clauses specific to Section D of the Basic Order Agreement (DAAE07-01-G-N001) are incorporated by reference into this Delivery Order DAAE07-01-G-N001/TBD with the exception of the following:

D.4 SPECIAL CONTAINERS FOR ABRAMS DERIVATIVE VEHICLE COMPONENTS

*** END OF NARRATIVE D 002 ***

Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.

SECTION E - INSPECTION AND ACCEPTANCE

INSPECTION AND ACCEPTANCE

E.1. INSPECTION POINTS: ORIGIN (Vehicles) and DESTINATION (Fielding Support)

Procurement Quality Assurance Inspection as to conformity of the supplies and services with contract requirements shall be made at the following locations:

M1A2 Retrofit SEP/CEEP Vehicles, Lima Army Tank Plant,
Lima, OH 45804

Deprocessing & Fielding Support

E.1.1 Vehicles

E.1.1.1.1 The Government will accept vehicles at LATP. This acceptance will be conditioned on the complete and successful deprocessing of vehicles at Ft. Carson as required by C.19; there will be no withhold of the vehicles price for this condition. Final acceptance of the vehicle will be at LATP after acceptance of deprocessing of the vehicle. Should the contractor fail to successfully complete deprocessing of a vehicle, the Government has the unilateral right to withhold up to 20% of that vehicle price from payment to the contractor until the contractor completes the deprocessing.

E.1.1.2 The contractor has notified the Government that the delivery schedule in Section F of the Government provided 2nd Gen FLIR components will not permit the contractor to maintain uninterrupted production at LAMP beginning with vehicles scheduled for completion in January 2005. The Government agrees to conditionally accept in January, February and March 2005 vehicles at LAMP without 2nd Gen FLIR components installed subject to (a) a mutually agreed-to withhold of payment (after the liquidation of PBPs) for material and labor costs related to the components; (b) the conditions in E.1.1 above; and (c) provided that the vehicles otherwise meet all other contract requirements.

E.2. ACCEPTANCE POINT: (Deprocessing & Fielding Support) DESTINATION

E.2.1 Acceptance of deprocessing, TPF items and TTVIII Support by the Government shall be made at Ft Carson.

E.3. INSPECTION RECORDS

E.3.1 Inspection records (hard copy, computer/electronic data or microfilmed) of the examinations and tests performed by the Contractor shall be kept complete and available to the government for a period of four (4) years following the final delivery.

E.4. DRAWINGS FOR FINAL VEHICLE/ITEM INSPECTION

E.4.1. DRAWINGS FOR INSPECTION: The Contractor shall make available to the Government inspector at the time of final vehicle/item inspection, legible drawings and printed specifications to which the vehicle/item was manufactured. These drawings and specifications shall be annotated to the latest revision incorporated therein. Electronic access to drawings and specifications contained in the contractor's ECARDS and CMCS systems satisfies the requirements of this provision.

E.4.2. SELECTION OF SAMPLES: Selection of samples for all vehicle functional tests will be accomplished by the Contractor, with the exception of vehicle verification test.

E.5. GOVERNMENT FURNISHED MATERIAL (GFM)

E.5.1 All items of GFM are provided elsewhere under this contract. (Reference Attachment 001) The Contractor shall report any deficiencies discovered on this GFM to the Government. Such deficiencies shall be reported by the Contractor utilizing his (contractor format which may be paper or electronic) standard Defective Government Material (DGM) format in accordance with DID DI-QCIC-80736, Exhibit A. (Reference Provision B.4.). The Government-furnished items required to be installed in, or delivered with each vehicle are identified on Attachment 001 and shall be furnished complete by the Government in the required quantities and quality to support work in-process without work around or disruption and FOB the appropriate contractor location. The schedule for delivery to the contractor of the GFM 2nd Gen FLIR components is in Section F.

E.6. M1A2 SEP FAT.

E.6.1 If the contractor elects to conduct a First Article Test Program in addition to those tests required by Section C, he shall have the authority to approve FAT Test Reports, for all assemblies, components and parts provided that no issues are identified that are inconsistent with the requirements of the vehicle system specification.

E.6.2 EFFECT OF A CHANGE ON AN APPROVED ITEM. If at any time the Contractor, a subcontractor, or a vendor changes either a design, the

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manufacturing or assembly process, the manufacturing or assembly location, or the source of supply; the Contractor is responsible for determining his need for a FAT, the extent of test required and shall perform such FAT testing at no additional cost to the Government.

E.6.3 TEST MONITORING. FATs may be monitored by the Government at their discretion. The Contractor shall provide to the Government Quality Assurance Representatives (DCMDE-RQT), at the time of placement, or as soon as possible thereafter, but not later than 5 working days prior to the test start, a copy of the purchase order or inter-company order which requires such tests to be performed. The document shall identify the test facility for vendor supplied components to be tested by the Contractor.

E.6.4 FLASH REPORTS. In the event of a test incident which affects compliance with the system specification, the Contractor shall provide notification and Flash Reports, for informational purposes only, in accordance with DD Form 1423 CDRL A007. The applicable Flash Reports shall be updated with the results of the failure analysis and applicable corrective action (e.g., the incident resulted from a testing error, test equipment problem, etc.; the failure was random as verified by additional testing; the failure identifies a design deficiency for which the supplier/contractor is not responsible; or corrective action has been taken and verified).

E.6.5 EFFECT OF DELAYED FAT ON ITEMS CLASSIFIED AS MISSION CRITICAL, SAFETY RELATED or affecting compliance with the System Specification.

Vehicle acceptance may be curtailed / withheld at the discretion of the Contracting Officer upon notification by the Contractor or the Government that a test incident involves issues categorized as either mission critical, safety related in accordance with OT-91-12221 or affecting compliance with the system specification. The Contractor shall expedite failure analysis and shall present the results to the Contracting Officer for concurrence. Vehicle acceptance may resume if it is determined by the Contracting Officer that:

1. An actual failure has not occurred.
2. The failure was random as verified by additional testing.
3. Corrective action has been taken to eliminate the deficiency.
4. The Contractor does not have responsibility for the failure.
5. It is in the best interest of the Government to continue acceptance.

E.6.6 If the Government has the right to withhold acceptance of tanks under Provision E.6.5 but elects to continue acceptance, the Government shall be entitled to timely correction of deficiencies in items for which a FAT approval has not been issued, at no further cost to the Government. In the event the Government elects to make its own correction of any deficiencies after delivery (DD250) it shall be entitled to an equitable adjustment of the contract price.

E.6.7 The Contractor has an affirmative obligation to provide notice to the Government, prior to offering vehicles for acceptance, of either, 1) the fact that a First Article Test has not been completed or 2) notice of an issue/incident affecting compliance with system specification that occurs during testing. In the event that the Contractor provides such notice prior to vehicle acceptance paragraph E.8.1.3 applies. In the event that the Contractor fails to provide such notice prior to vehicle acceptance or shipment it shall be liable for any additional costs associated with a field correction of deficiencies disclosed by a FAT for vehicles accepted prior to the receipt of such notice. For purposes of this paragraph submission of Flash Reports in accordance with DID OT-91-12221 is considered notice to the Government.

E.7 COMPONENT CONTROL TESTS

E.7.1 If the contractor elects to conduct component control tests the Contractor shall provide Flash Reports for system specification non-compliances for informational purposes only, in accordance with CDRL A007 of the Delivery Order DD 1423 Contract Data Report List. The applicable Flash Report shall be updated with the results of the Contractor's failure analysis and applicable corrective action.

E.7.2 In the event of an incident classified as mission critical, safety related or affecting compliance with system specification, vehicle acceptance may be curtailed / withheld at the discretion of the ACO pursuant to provision E.6.5.

E.7.3 the contractor shall be responsible for the timely resolution of any test incident described in E.7.2. Corrective action shall be implemented, if applicable, and verified.

E.8. SINGLE PROCESS ACCEPTANCE INITIATIVE

E.8.1 Single Process Acceptance Initiative (SPAI). The inspection and acceptance process at LATP and at Ft. Carson shall be in accordance with the SPAI document (SPAUD) in Attachment 012. The information from the SPAI process shall be utilized to enhance the production effort with the goal of optimizing the overall acceptance process.

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E.8.2 Acceptance Process Initiation

E.8.2.1 The Contractor shall perform Inspection at LATP on M1A2 Retrofit SEP vehicles to the Part I of the SPAID document (SPAID) (Attachment 012) pursuant to provision C.2., System Responsibility and Conformance with Specifications. The contractor shall certify that all inspections and tests, as identified in Part I of the SPAID, have been successfully and fully completed. The contractor shall correct entirely at his expense and prior to shipment of the vehicle all SPAID Part I characteristics which failed this inspection. All inspection and corrections are subject to Government verification. The contractor shall provide to the ACO as much notice as practicable of the contractors planned inspections. If a requirement in Part I of the SPAID is not met at LATP, then the vehicle will remain at LATP until the deficiencies are corrected and successfully retested. The contractor may ship a vehicle with an unresolved SPAID Part I requirement if satisfactory evidence can be provided to the Government that an equivalent SPAID Part I check can be conducted at the fielding site.

E.8.2.2 Pursuant to provision C.5., Contractor Configuration Management (CM) software may be used for vehicle acceptance.

E.8.2.3 Deficiencies disclosed during inspection by the Contractor shall be described in the acceptance documentation package. The Contractor shall submit a completed and certified copy of the Part I of the SPAID (see E.8.12.1 above) to the Government Inspector with each end item inspected and offered for acceptance by the Government.

E.8.3 Conclusion of Acceptance Process

E.8.3.1 The contractor shall inspect the deprocessed vehicle IAW Part II of the SPAID. The contractor shall correct entirely at his own expense any non-conformances discovered during this inspection.

E.9. INSPECTION AND ACCEPTANCE OF FIELDING SUPPORT AT FT. CARSON

E.9.1 Deprocessing. The contractor, with the Government witnessing, shall inspect all vehicles as called for in C.19 (Deprocessing/TPF SOW) to ensure that they meet the inspection criteria of the Part II of the SPAID (Attachment 012). The contractor shall correct any non-conformances discovered in this inspection prior to issue.

E.9.2 Government Acceptance of deprocessing will be at hand-off after successful Part I SPAID inspection at LATP (the contractor will provide a SPAID Part I Completion Certification (example at Attachment 013) with each vehicle) and after successful inspection as required by E.9.1 above.

E.9.3 Inspection and Acceptance of TPF Items. Inspection and acceptance of TPF Items will be at Ft. Carson, Colorado.

E.9.4 Inspection and Acceptance of TTVIII Support will be at Ft. Carson. The criteria for acceptance are Part II of the SPAID. The contractors price is predicated on the contractor providing the New Equipment Training.

E.9.5 If, for any reason, the Contractor determines that a vehicle or other deliverable does not meet the performance requirements for that vehicle or other deliverable, as described in Section C.2., the Contractor shall immediately notify the PCO, ACO, and the Program Management Office. Where the contractor is responsible for corrective action, the Contractor shall submit to the Program Management Office a written, reasonable, recommended corrective action plan within forty-five (45) days, or such other period as may be mutually agreed. The Contracting Officer shall, within thirty (30) days after receipt of the Contractor's redesign plan or corrective action plan, either accept or reject the plan. If the Government accepts the plan, the Contractor shall proceed with the corrective action at the Contractor's expense. If the Contractor's recommended plan is determined to be inadequate, the Contractor shall be informed of the extent of the inadequacies and shall submit a revised recommendation within thirty (30) days after receipt of such information.

E.10. VEHICLE LEVEL CONTROL TEST REQUIREMENT

E.10.1. Vehicle level control testing shall be performed at the frequency of one Abrams vehicle type for two months of production. This two-month production quantity shall be considered a control test lot. If two different Abrams vehicle types (e.g., M1A1 and M1A2 SEP) are being produced, the control test lots shall be alternated so that one begins one month and the other the next month. The contractor shall select the control test vehicle and shall notify government inspection of the selection.

E.10.2 If a failure occurs, the control test lot of vehicles shall be evaluated as follows:

E.10.2.1 The contractor shall determine whether the failed characteristic AFFECTS ALL Abrams vehicle types (e.g., M1A1 and M1A2 SEP etc.) IF IT IS SO DETERMINED THAT THE FAILED CHARACTERISTIC IS COMMON TO OTHER ABRAMS VEHICLE TYPES THEN ALL VEHICLES REPRESENTED BY THE FAILED CHARACTERISTIC OF THOSE TYPES ARE CONSIDERED SUSPECT. Factors considered in this determination shall be technical design of the affected system/components, source of components (e.g., new, reclaim, etc.) ETC.

E.10.2.2. Five additional vehicles from the month of the control test vehicle (or the month's production if less than five) shall be tested for the failed control test characteristic(s) only. If the contractor determines that the failure ALSO impacts OTHER Abrams

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vehicle types that are not part of the control test lot, this sample shall contain a mix of vehicle TYPES.

E.10.2.3 If a failure occurs within these five vehicles, all vehicles from the first month of the control test lot shall be tested for the failed characteristic(s). Additionally, five vehicles from the second month of the control test lot shall be tested for the failed characteristic(s). If additional failures occur, all vehicles in the control test lot shall be tested for the failed characteristic(s). If the contractor determined that the failure also impacts OTHER Abrams vehicle types that were not part of the control test lot all of the vehicles from the same month as the control test vehicle shall be tested for the failed characteristic(s).

E.10.3. Control testing frequency for all control test characteristics shall return to the frequency established in E.10.1 after completion of the control test lot.

E.11 VEHICLE VERIFICATION TESTING (VVT).

E.11.1 Verification Testing. The Government will select one complete vehicle from the first program year (the first program year is the base quantity of 65 vehicles; the second program year is the option of 64) and one complete vehicle from the second program year and test it to confirm compliance with Section 3 of the system specification called for in C.2.2. (See DTC Project Number 1-VC-080-1A2-124 and 1-VC-080-1A2-125, version 3.0, dated March 2004 for detailed draft test plan. A final plan will be incorporated at definitization). In the event of a discrepancy between the System Specification and the test plan, the system Specification will take precedence. The vehicle test duration will be scheduled for 1500 miles and during this period may be exposed to the hot and cold environments extremes. The contractor shall conduct an interim inspection IAW E.8.1 and correct all non-conformances before shipping the vehicle to the test site. The vehicle will be considered representative of the production lot (production year) and any non-conformance will be assumed to be included within the entire lot.

E.11.2 Pass/Fail Criteria.

a. Performance Testing. During the 1500 mile test, the contractor-provided hardware and software (the entire M1A2 SEP/CEEP system with the exception of the items in C.2.1.2 (a) through (e)) shall meet the requirements of the system specification to the extent required by Section C. The test Site prepared Test Incident Report (TIR) will be the primary instrument used to document non-compliances. Failure Analysis and Corrective Action Plan shall be prepared as required per CDRL A007.

b. For RAM-D compliance, the following requirements apply at the system level:

- (1) Not less than 320 MMBF for Combat Mission Reliability,
 - (2) Not less than 101 MMBF for System Reliability,
 - (3) Not More than 1.25 for Maintenance Ratio,
 - (4) Transmission Durability: TBD,
 - (5) Not less than 1500 miles durability for New Sprockets (both sprockets in a set must be new for this to apply).
- Chargeable Combat Mission Reliability, System Reliability, and Maintenance Ratio incidents are defined in document entitled M1A2 Tank Program RAM-D Failure Criteria for M1A2 Tanks System, change 3 dated September 1997. A Powertrain Durability Failure on the transmission is any failure that cannot be repaired in the field by two level maintenance which requires return to Depot.

c. GDLS shall assist the PM voting member in preparation for the scoring conference.

E.11.3 Correction.

a. Performance-Testing Corrections. The contractor shall correct entirely at his expense any non-conformance for which he is responsible discovered during performance testing on that vehicle. The contractor shall correct all affected vehicles in the program year (i.e. up to 65 vehicles) when CFM results in a test failure.

b. RAM-D Corrections. If the tank fails to meet any of the five RAM-D standards in paragraph E.11.2(b) above, the contractor shall correct the RAM-D failures as described below. The contractor shall correct all vehicles in that program year.

(i) Combat Mission Reliability. If the system fails to meet the specification standard and the combat mission failures consist of both CFM and GFM failures, the failures shall be corrected by the contractor and the Government in the order of their combat-mission severity until the system meets the specification standard. In other words, failures with a factor of 1.0 shall be corrected prior to those with a factor of .5. Where there are CFM and GFM failures with the same factor, the failures shall be corrected in the order in which they occurred. The contractor is responsible for CFM failures; the Government, for GFM and ANAD work content. If the Government elects not to correct a GFM failure, that failure will not be counted as a failure against the specification standard.

(ii) System Reliability. If the system fails to meet the specification standard and the system reliability failures consist of both CFM and GFM failures, the failures shall be corrected by the contractor and the Government in the following order until the system meets the specification standard: (a) pattern failures beginning with those with the greatest frequency (pattern failures with the same frequency shall be fixed in the order in which they occurred); and (b) single failures, in the order in which they occurred from first to last. The contractor is responsible for CFM failures; the Government, for GFM and ANAD work content. If the Government

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elects not to correct a GFM failure, that failure will not be counted as a failure against the specification standard.

(iii) Maintenance Ratio. If the system fails to meet the specification maintenance ratio and there are both CFM and GFM failures, the failures shall be corrected in the order of the most maintenance time to the least until the system meets the specification standard. The contractor is responsible for CFM failures; the Government, for GFM and ANAD work content. If the Government elects not to correct a GFM failure, that failure will not be counted as a failure against the specification standard.

(iv) Transmission. TBD

(v) Sprockets. The contractor is solely responsible for meeting this requirement and correcting all non-compliances.

E.11.4 The contractor shall provide non-GFM repair and spare parts to support each Government Vehicle Verification Test. The contractor shall provide the parts within 2 calendar days of the Governments request. All parts shall be representative of the production configuration and manufacturing processes used to build the tanks in the test lot.

E.11.5 The contractor shall perform failure analysis of all TIRs in the VVT. The contractor shall provide to the Government the results of failure analysis in accordance with the CDRL.

E.11.6 Systemic Warranty Compliance. Successful completion of the VVT notwithstanding, the contractor is responsible for obligations defined in H.5, Systemic Warranty.

*** END OF NARRATIVE E 002 ***

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SECTION F - DELIVERIES OR PERFORMANCE

DELIVERIES OR PERFORMANCE

F.1. Delivery Schedule.

F.1.1. The contractor shall deliver vehicles and provide fielding support in accordance with the following schedule:

1st Squadron		
M1A2 Retrofit	Delivery/Fielding Date: March 2006	
TOTAL: 43	Destination:	Ft. Carson, Colorado
2nd Squadron		
M1A2 Retrofit	Delivery/Fielding Date: November 2006	
TOTAL: 22	Destination:	Ft. Carson, Colorado

F.1.1.1. Delivery Schedule for Option Quantities

F.1.1.2. The contractor shall deliver option vehicles and provide fielding support in accordance with the following schedule:

2nd Squadron		
M1A2 Retrofit	Delivery/Fielding Date: November 2006	
TOTAL: 21	Destination:	Ft. Carson, Colorado
3rd Squadron		
M1A2 Retrofit	Delivery/Fielding Date: May 2007	
TOTAL: 43	Destination:	Ft. Carson, Colorado

F.1.1.3 Delivery at LATP. The monthly delivery schedule at LATP will be established prior to or at definitization.

F.1.2 Deprocessing and TPF. The contractor shall deliver all required TPF items and perform all deprocessing services not later than the squadron issue date.

F.1.3 The contractor shall co-ordinate SPAID Part I inspection at LATP and the contractor need dates for rail transportation with the ACO. The contractor shall load the vehicles in accordance with the schedule provided by the ACO.

F.1.4 Reserved.

F.1.5 Vehicle Verification Test Vehicles.

F.1.5.1 The Government may select one complete vehicle from each program year not later than the fourth (4th) planned production month of each program year.

F.1.5.2 The Government will complete its testing and test assessment not later than ten months after the selection of the vehicle, at which time the contractor may return the vehicle to its facility for refurbishment to TM 10/20 standards.

F.2. GFM REPORTING

F.2.1. Report is to be delivered in accordance with DD Form 1423, Data Item Number A004 and Attachment 002.

F.3. Reserved.

F.4. Government Bills Of Lading and Other Routing Instructions

F.4.1. The Contractor shall request (i) Government Bills of Lading and routing and other instructions, including Military Standard Transportation and Movement Procedure (MILSTAMP), as to the methods of shipment to be followed by the Contractor or (ii) authorization to ship on Commercial Bills of Lading to be converted to Government Bills of Lading at destinations from Transportation Office, administering DCMDE-GJQB, ten days in advance of the date of which material is made ready for shipment. Appropriate forms for said requests will be furnished by DCMDE-GJQB to the Contractor. The Contractor shall prepare and address said forms as directed by the Contracting Officer or his duly authorized representative.

F.5. Shipping Instructions

F.5.1. Shipping instructions for the delivery order end items will be provided by the Contracting Officer 60 days in advance of the shipment date. Revised, amended, or final shipping instruction will be provided to the Contractor by the ACO no less than ten (10) days prior to the shipment date.

F.6. Instructions for Use, Preparation, and Distribution of DD Form 250 Material Inspection and Receiving Report (MIRR)

F.7 Preparation of DD 250

DD Form 250 shall be completed by the contractor in accordance with instructions contained at clause 52.246-7000 of the Department of Defense Federal Acquisition Regulation.

F.7.1 DD 250 (MIRR) DISTRIBUTION

The following addresses only should have one (1) each copy of the Material Inspection and Receiving Report distributed by the Contractor per DFAR 252.246-7000, as appropriate per location.

F.7.2 TACOM
Heavy Combat Commodity Business Operations
ATTN: AMSTA-LC-C
Warren, MI 48397-5000

F.7.3 Lima Army Tank Plant
ATTN: DCMDE-GJQB
ATTN: Contract Administrator
1155 Buckeye Road
Lima, OH 45804

F.7.4 Lima Army Tank Plant
ATTN: DCMDE-GJQB
ATTN: Test & Acceptance QAR
1155 Buckeye Road
Lima, OH 45804

F.7.5 In accordance with DFAR 252.246-7000, distribution of the Acquiring Offices MIRR DD 250 shall be to the following address.

U.S. Tank-Automotive Command
Production & Industrial Base Management Group
ATTN: AMSTA-AQ-P
Warren, MI 48397-5000

F.8 FOB Points.

F.8.1 The contractor shall deliver the M1A2 SEP/CEEP Tanks FOB LATP.

F.8.2 The contractor shall deliver the TPF items, deprocessing, and TTVIII Support FOB Destination.

F.9 Delivery Schedule for the Block I Improvement to the 2nd Generation FLIR

The Government will deliver the Government-furnished 2nd G FLIR hardware to the contractor in accordance with the following schedule (in each schedule, the last 64 items will be provided if the Government exercises the option for the second production year):

TIS (delivered to GDAO)											
10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
4	4	8	8	8	8	8	8	8	1	4	6
10/05	11/05	12/05	1/06	2/06	3/06	4/06					
8	8	8	8	8	8	6					

CITV (delivered to LATP)											
11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	

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0/05	11/05	12/05	1/06	2/06	3/06	7	4/06	5/06	6/06	7/06			
	4	6	8	8	8	8	8	8	8	6			

The Terms and Conditions and contract clauses specific to Section F of the Basic Order Agreement (DAAE07-01-G-N001) are incorporated by reference into this Delivery Order DAAE07-01-G-N001/0010

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SECTION G - CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ <u>ITEM</u> <u>MIPR</u>	<u>ACRN</u>	<u>OBLG STAT/</u> <u>JOB ORD NO</u>		<u>PRIOR AMOUNT</u>		<u>INCREASE/DECREASE</u> <u>AMOUNT</u>		<u>CUMULATIVE</u> <u>AMOUNT</u>
0001AA	473BVS0247 31206453021 A13P30212R47	AA	1 3GAAUS	\$	14,305,766.00	\$	76,000,000.00	\$	90,305,766.00
0001AB	474BVS0147 31206453019 A14P30192R47	AB	1 4GAAUS	\$	26,929,806.00	\$	4,520,428.00	\$	31,450,234.00
					NET CHANGE	\$	80,520,428.00		

SERVICE	NET CHANGE					ACCOUNTING	INCREASE/DECREASE
<u>NAME</u>	<u>BY ACRN</u>	<u>ACCOUNTING CLASSIFICATION</u>				<u>STATION</u>	<u>AMOUNT</u>
Army	AA	21	32033000035R5R02P31206431E9	S20113		W56HZV	\$ 76,000,000.00
Army	AB	21	42033000045R5R02P31206431E9	S20113		W56HZV	\$ 4,520,428.00
NET CHANGE							\$ 80,520,428.00

		<u>PRIOR AMOUNT</u> <u>OF AWARD</u>		<u>INCREASE/DECREASE</u> <u>AMOUNT</u>		<u>CUMULATIVE</u> <u>OBLIG AMT</u>
NET CHANGE FOR AWARD:	\$	41,235,572.00	\$	80,520,428.00	\$	121,756,000.00

SECTION G

CONTRACT ADMINISTRATION DATA

G.1. ADMINISTRATION TACOM (APR 1985)

- a. Procuring Contracting Officer (PCO). Pursuant to Paragraph 42.202(b) of the Federal Acquisition Regulation, the PCO has retained performance of the contract administration functions set forth in FAR Paragraphs 42.302(b)(4), (7) through (11) and 42.302(c) and all other approval and directional functions set forth in Sections C through I of this Contract.
- b. Administrative Contracting Officer (ACO). The administration of this Contract shall be performed by an ACO designated by the cognizant administration office. The administration of this Contract shall be performed in accordance with Paragraph 42.302(a) of the Federal Acquisition Regulation, and 42.302(b) (1) through (3), (5) and (6), except for changes in the scope of the Contract, which will be made only by the PCO.

G.2. RELEASE OF INFORMATION TACOM (APR 1991)

The contractor shall comply with the requirements of Chapter 9 of AR 360-5 dated 31 May 89, Release of Information by Manufacturers, Research Organizations, Educational Institutions Holding Army Contracts, and Other Commercial Entities prior to contemplated release of any procurement information. Approval of the Contracting Officer is required prior to release of any such information. A copy of AR 360-5 may be obtained from web address, <http://contracting.tacom.army.mil>.

G.3. CLIN PRICE CHANGE

- G.3.1. The prices of tanks and other deliverables negotiated under this Contract may be changed by ECPs, VECPs, Claims, and Credits. The total CLIN price may be changed by modification to the Contract as a result of one of the described actions. This clause is to incorporate a unit price credit to a single deliverable under a CLIN rather than all deliverables under a CLIN as a result of a change in the CLIN price.
- G.3.2. The negotiated unit price for tanks under CLINS TBD, will remain unchanged EXCEPT for the last vehicle to be delivered under that CLIN. The following table will be used by the Government and the Contractor to track Unit Price credits under a CLIN. The Contractor will bill the Government for the last tank under each CLIN by using the adjusted unit price listed below. As a result of Performance Based payments, should the Contractor owe the Government for the last vehicle delivered, the Contractor will pay the amount

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owed in accordance with the direction of the Administrative Contracting Officer.

G.3.3. The following table indicates the unit price adjustment in a CLIN amount as described in G.3.1. above. If a CLIN is not listed, then that CLIN's unit price remains at the negotiated unit price.

Modification	\$ Adjustment	SubCLIN	ACRN	PWD	U/P LAST TANK
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Changes to the prices of tanks as described in G.3.1. above shall apply to the U/P of the last tank of the CLIN to which the funds are deobligated. The last tank is always the last vehicle to be delivered under the CLIN. ECP, VECP, and claim adjustments will be handled separately.

G.3.4 Tank SubCLIN Split-Funding Payments Instructions under CLINS (TBD)

The quantities and dollars on subCLINs under CLINS (TBD) are set forth in Section B of the contract for funding and billing purposes. The billing price per unit for the xxx vehicles under CLIN (TBD) shall be the negotiated unit price set forth in the applicable Section B pages, less any required withholds and adjustments. The parties recognize that the negotiated unit price times the number of units in each subCLIN do not equal the amount funded under each subCLIN. Therefore, the invoices submitted under any subCLIN for vehicles delivered under the contract may not equal the dollar amount of the funded subCLIN , being either under or over the funded amount . For example as of this Modification the approximate number of vehicles at the negotiated price actually funded is as follows:

SUBCLIN	ACRN	SUBCLIN QTY	ACTUAL Funded QTY
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Differences between the total subCLIN QTY and the Funded QTY is due to the negotiated credit under Provision G.3.3. that is applied to the negotiated unit price of the last vehicle delivered under subCLIN (TBD)

Payments made by DFAS under CLINS (TBD) shall be in the order listed above. The contractor is required to add special payment instructions to each DD250 that the split funding requirement applies to. The special payment instructions on the DD250 shall include the CLIN, ACRN and specific amount to be billed towards each CLIN/ACRN.

G.4 TRANSFER OF M1A2 COSTS:

G.4.1. In accordance with this provision, all allowable costs incurred for labor and for material acquired under this Contract DAAE07-01-G-N001/0010 under Cost-no-fee CLINS 0001AA and 0001AB for Long Lead Materials for tank production and SEP/CEEP incorporation shall be treated as being acquired on a firm-fixed-price basis as if acquired solely under this contract on a fixed price basis for vehicles. In the event payments made to the Contractor under the LLM cost CLIN(s) exceed the limitations imposed by the Progress Payment Provision of this tank contract when the LLM is converted to vehicles, such payments will be adjusted to be in compliance with the Progress Payment Provision by submittal of an adjusting Progress Payment request at the end of a 60 day period following the execution of this modification incorporating the requirement for M1A2 SEP/CEEP Tanks under the vehicle CLINS. All material transferred upon execution of this letter contract modification to this contract shall revert to being Contractor Furnished Material as if acquired exclusively under the terms of a fixed price tank contract."

G.5. BOA CLAUSES INCORPORATED BY REFERENCES

G.5.1. General clauses in the BOA DAAE07-01-G-N001 as of Modification P0007 are applicable to this Delivery Order DAAE07-01-G-N001/0010.

G.6 PAYMENTS

G.6.1. TBD

G.6.2. Contract Financing of any type does not apply to CLINs entitled Damaged or Defective Government Material (CLIN TBD), Packaging, Crating and Handling (CLIN TBD), and Priority Shipment (CLIN TBD).

G.6.3. TBD

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SECTION H - SPECIAL CONTRACT REQUIREMENTS
SPECIAL PROVISIONS

H.1. DEMILITARIZATION OF ITEMS

H.1.1. The Government shall provide demilitarization instructions as required.

H.2. SMALL, SMALL DISADVANTAGED, AND WOMEN-OWNED BUSINESS SUBCONTRACTING PLAN (DOD CONTRACTS) 252.219-7003 (APR 1996)

H.2.1. In furtherance of the Government's policy of promoting the development of small disadvantaged business enterprises, the contractor agrees to award subcontracts to such enterprises, as they are defined in the referenced clause to the maximum practicable extent consistent with efficient contract performance.

H.2.2. The Contractor's Small Business Subcontracting Plan, P-1294-R2, dated May 3, 2004 and incorporated into the Contract by reference.

H.3. CONTRACT - ORDER OF PRECEDENCE

Any inconsistency in this solicitation or contract shall be resolved by giving precedence in the following order:

- (a) the Schedule (excluding the specifications);
- (b) representations and other instructions;
- (c) contract clauses;
- (d) other documents, exhibits, and attachments; and
- (e) the specifications.

The specifications include the ERR.

Among the specifications, the following is the order of precedence for the Retrofit M1A2 SEP/CEEP specifications contained in C.2.

- 1. Any Interface Control Document referenced in the System Specification and Provision C.2.7.;
- 2. System Specification;
- 3. Prime Item Product Fabrication;
- 4. LRU Specifications listed in Attachment 003
- 5. The ERR/Technical Specifications; and
- 6. Other specifications.

H.4 Progress Payments FAR 52.232-16 (APR 2003) (ALT II APR 2003)

H.5. SYSTEMIC WARRANTY

H.5.1. Definitions:

H.5.1.1. Acceptance" is execution by an authorized Government Representative of a DOD Form 250 and means the act by which the Government assumes, for itself or as an agent of another, ownership of the identified supplies or recognizes completion of total performance specified in the Order.

H.5.1.2. Supplies" are all new and refurbished SEP hardware, all M1A2 hardware upgraded to the M1A2 SEP configuration, the installation and assembly of the foregoing hardware into M1A2 SEP Retrofit Tanks, and all software. The contractor is responsible for any defect or non-compliance with the essential performance requirements (see H.5.1.5) that is caused by these supplies except as limited by Provision H.5.9.3. The warranty rights and responsibilities of the Government and the contractor for the M1A2 hardware re-used without modification are set forth in DAAE07-01-G-N001/0003 and remain unchanged.

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H.5.1.3. Vehicle" is the Abrams Series Tank delivered with new or upgraded LRUs and SRUs under this Delivery Order.

H.5.1.4. Failure" is any condition or characteristic in any supplies furnished under the Order that is not in compliance with the requirements of the Order and authorized maintenance documentation.

H.5.1.5. Essential Performance Requirement" is defined as delivered vehicles under warranty meeting the requirements in C.2. (see C.2.6 for GPM converted to CFM), and C.3. of the order.

H.5.1.6. "Design and Manufacturing Requirements" are defined as those structural and engineering plans and manufacturing particulars, including precise measurements, tolerances, materials and finished product tests for the system being produced, as identified in H.5.1.5. above.

H.5.1.7. A "Warranted Design Item" is defined as an item of "supplies" in H.5.1.2., which:

a) is introduced into the baseline configuration by a unilateral decision of the Contractor; or

b) is introduced into the baseline configuration by a change to design, manufacturing, or software requirements embodied in an executed contract change order to the baseline configuration and which has satisfactorily completed the appropriate development and planned tests, as mutually agreed upon, by cognizant Contractor and Government technical personnel.

H.5.1.8. Defects" are defined as:

a) Any condition or characteristic in "supplies" that is not in compliance with the requirements of the Prime Item Product Fabrication Specification, Tank, Combat, as defined in Section C.2.

b) "Defects" under the System Specification defined in Section C.2. are defined as specification non-compliance(s).

c) During this Order, a system level test may result in achievement of a characteristic which i.) was previously untested or ii.) confirms the correction to a known prior non-compliance. If any Warranted Design Item change is introduced subsequent to such test and the change degrades the newly demonstrated compliance, then the degradation will constitute a defect under this clause. This requirement will be applicable on a prospective basis.

H.5.1.9. Reserved.

H.5.1.10. Redesign" is defined as the remedy applicable to correct defective warranted design items when workmanship and material and manufacturing non-conformance have been eliminated as the cause of the failure or defect. "Redesign" applies to systemic defects only.

H.5.1.11. Systemic Defect" is a classification of failures which occurs, or may occur, with a frequency, pattern, or sameness to indicate a logical regularity of occurrence which exceeds expected failures and would justify multiple vehicle corrective action.

H.5.1.12. A "Production Lot" for this Order is the tanks produced under a CLIN of this Delivery Order.

H.5.1.13. Appropriate development and planned tests," as it is used in H.5.1.7, is defined as development together with verification testing that is commensurate with the complexity of the subject change as mutually agreed between the parties. Verification testing may include component, subsystem, system and vehicle level testing, incorporating environmental, EMI, EMC, NBC and Nuclear Testing and any necessary vehicle level verification to include confirmation to the Prime Item Product Fabrication Specification, the System Specification, testing in accordance with the FIR and funded by the Government under the current STS contract. Software verification testing may include CSU Test, Integration Test, CSCI Test, Vetronic System Test, Quality Assurance Vehicle Test, Prime Item FIR Vehicle Test (at Lima Army Tank Plant), as well as Government Testing including User-conducted "Beta" testing. In the event that the Government fails to conduct any of the agreed upon testing the parties agree that any characteristic not tested shall not be warranted until such time as the Government funds and the Contractor successfully completes testing on that characteristic as defined in the appropriate test plan.

H.5.2. Coverage:

H.5.2.1. Notwithstanding inspection and acceptance by the Government of supplies furnished under this Order or any clause of this Order concerning the conclusiveness thereof, the Contractor warrants for the periods set forth herein that all supplies provided under this Order:

a. Will be free from all defects in material and workmanship at the time of delivery that would cause the warranted items to fail to meet the requirements of this Order.

b. Will conform to the design and manufacturing requirements set forth in Section C of this Order; and

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c. Will meet the essential performance requirements identified in Paragraph H.5.1.5. above.

H.5.2.2. The Contractor shall, to the extent the Contractor's suppliers customarily provide to customers a Greater Warranty covering specific supplies, provide such greater warranty as available for those specific components. The contractor is identifying such supplies and warranty terms under the Contractor/Government TAPS Contract.

H.5.3. Contractor Liability: The Contractor's maximum liability under this entire clause H.5 for the cumulative corrective action taken on supplies delivered under each CLIN shall be limited to the ceiling prices given below.

CLIN 0001: \$ TBD

H.5.4. WARRANTY FOR SYSTEMIC DEFECTS:

H.5.4.1. MATERIAL REPAIR/REWORK/REPLACEMENT: In the event the Government determines that a systemic defect exists in the warranted vehicles delivered under this contract, and such defect is determined to be the result of a breach of any of the warranties set forth in paragraph H.5.2 above, then the Contractor shall be liable for timely correction of such systemic defect(s) by repair, rework or replacement of the defective supplies. The Government shall provide reasonable evidence in support of each claim of systemic defect, and where necessary evidence of adequate testing of the warranted design items, to establish the nature of the defect at Government expense. Government expense shall include payment to the Contractor for locating and identifying any failed components in tanks which have been unconditionally accepted by the Government, when so directed to do so by the Contracting Officer.

H.5.4.2. REDESIGN: In addition to the remedy set forth in paragraph H.5.4.1. above, if such a systemic defect exists in a warranted design item, the Contractor shall be liable for redesign of such defective item including any testing required to validate/qualify the proposed redesign, any other effort normally associated with an ECP, provide the redesigned item for vehicles delivered with the defective item and incorporation of the redesign into remaining vehicles to be manufactured under this contract, at no increase in cost to the Government.

H.5.4.3. NOTICE OF A CLAIM: Any claim for correction of a systemic defect, including redesign effort, shall be invoked by the Contracting Officer giving notice to the Contractor within forty-five (45) days after the conditions evidencing systemic defect as set forth in this clause have been provided to the Contracting Officer. The Contractor shall have no liability under this warranty unless such notice is received within forty-five (45) days after completion of the applicable warranty period for systemic defects relating to workmanship and material, design and manufacturing requirements, essential performance requirements or warranted design items. Similarly, the Contractor shall have no liability for System Specification non-compliance unless the Contracting Officer documents with the notice of claim that the noncompliance was a defect as defined in H.5.1.8. The Contracting Officer's notification to the Contractor will include the applicable equipment serial number or the part number or the Federal Stock Number of the defective part, location of equipment to the best of the Government's knowledge, the circumstances surrounding the defect(s), evidence of adequate testing including appropriate test reports if not in the Contractor's possession for warranted design claims, and a point of contact to include phone number. The Government shall provide the Contractor at its request, all reasonably available test data related to a test report(s) provided in a claim, if the data is not included in the report(s).

H.5.4.4. The Contractor shall submit to the Contracting Officer a written reasonable recommended redesign plan or corrective action plan within forty-five (45) days, or such other period as may be mutually agreed, after receipt of the Contracting Officer's notice in accordance with H.5.4.3. The Contracting Officer shall, within thirty (30) days after receipt of the Contractor's redesign plan or corrective action plan, either accept or reject the plan. If the Government accepts the plan, the Contractor will proceed with the redesign effort or corrective action at the Contractor's expense. If the Contractor's recommended plan is determined to be inadequate, the Contractor shall be informed of the extent of the inadequacies and shall submit a revised recommendation within thirty (30) days after receipt of such information.

H.5.4.5. The Contractor upon receipt of a warranty claim will provide in the Contractor's format, the Government with warranty tracking data pertaining to the claim to the extent such data may be available in the Contractor's system.

H.5.4.6. If the initial and/or revised recommended redesign is reasonable and can be demonstrated to correct the systemic defect, but the Government directs an alternative design to be implemented, the Contractor shall be entitled to an equitable adjustment for any increased cost to the Contractor caused by implementing the Government's redesign rather than the Contractor's recommended design. In such an event, the Contractor shall have no continuing warranty obligation with respect to the Government directed redesign.

H.5.4.7. Where the Government funded tests for a warranted design item are not satisfactorily completed until after incorporation of the design change into the delivery order, warranty coverage shall commence when items incorporating the design change are initially incorporated into supplies, except that when the item configuration has been further changed as a result of test problems, warranty coverage shall commence when the item containing the configuration that satisfactorily completed the Government funded tests was initially incorporated into supplies.

H.5.5. WARRANTY PERIOD:

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H.5.5.1. The warranty for material and workmanship for Systemic Defects shall extend from the date of acceptance of the retrofitted M1A2 SEP/CEEP vehicle at destination for a period of twelve (12) months. If the contractor receives notice of a valid material or workmanship defect within this warranty period, the contractor shall correct such defect in all tanks in which it occurs within the unbroken production lot of the tank upon which notice was given. For this warranty clause, a production lot consists of all vehicles delivered in a squadron.

H.5.5.2. The Contractor's responsibility for redesign of warranted design items delivered under this Order shall continue for a twenty-four (24) month period following first delivery of the component, part, or system software in a warranted vehicle.

H.5.6. RIGHT TO EQUITABLE ADJUSTMENT:

H.5.6.1. If, upon determination of a warranty claim as provided under H.5.4, the Government elects to repair the warranted items at Government expense, or if the Government elects not to require redesign, repair or replacement of defective or non-conforming warranted supplies to which it is otherwise entitled at Contractor expense under this warranty, the Order shall be subject to a downward equitable adjustment.

H.5.6.2. The amount of the equitable adjustment for repair/replacement of warranted supplies shall be the lower of the replacement cost or the agreed upon repair cost to the Contractor. The replacement cost shall be the amount originally charged to the Government in the Contractor's Bill of Material for the defective supplies plus Contractor mark-ups and profit (Component's price not cost). The Contractor shall forward payment quarterly for all warranty claims by the Government for money reimbursement, which were resolved during the previous quarter. Payment shall be sent to the Abrams PM Office, Plans and Program Branch (SFAE-ASM-AB-PP) with checks made out to "THE TREASURER OF THE UNITED STATES (SFAE-ASM-AB-PP)", with a list identifying the user's warranty claim number, date of the claim, amount of each, and Order number under which each claim arose. A copy of the list marked with the identifying check number shall be provided to the Contracting Officer concurrent with payment. The Order will be equitably adjusted in an amount equal to the payment.

H.5.7. Field Maintenance Responsibility and Liability:

H.5.7.1. Maintenance performed by Government personnel in accordance with published maintenance procedures, shall not void any coverage under this warranty and shall be at Government expense, including parts and labor.

H.5.7.2. There will be no voiding of warranty for use by the Government of MIL Spec Parts unless it can be determined that failure is caused thereby.

H.5.8. Exclusions: The provisions of this warranty shall not apply to any warranted supplies if failure has been caused by:

- a. Improper installation or maintenance by the Government.
- b. Operation contrary to the validated and verified Technical Manuals (TMs), design operating parameters, or other written instructions provided to and approved by the Government in such a way as to be a principal cause of the failure.
- c. Repair or alteration by the Government in such a way as to cause the failure.
- d. Misuse, neglect, or accident, including, but not limited to, fire or explosion.
- e. Participation in a combat mission or having sustained combat damage from a combat mission.
- f. Operation outside the specific installation and operating limits specified in Prime Item Product Fabrication Specification or System Specification operating parameters in such a way as to be a principal cause of the failure.
- g. Foreign object damage.
- h. Installation or operation in other than its intended use.
- i. Force Majeure, subversion, riots, vandalism, or sabotage, or fire or explosion induced by or originating from sources external to the warranty items.
- j. Damage attributable to improper packaging, crating, handling, or storage by the Government to the extent of said damage.

H.5.9. Disclaimers and Limitations:

H.5.9.1. Disputes arising under this Order shall be resolved in accordance with the clause of this Order entitled "Disputes."

H.5.9.2. This warranty is the only warranty applicable to the supplies delivered hereunder and is expressed in lieu of all other guarantees or warranties, express or implied, including any implied warranty of merchantability or fitness for a particular purpose.

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Additionally, the Contractor shall not be liable for consequential damages resulting from a failure under this clause of supplies delivered hereunder.

H.5.9.3. With respect to Government-Furnished Materials (GFM), the Contractor's warranty including its warranty with respect to design shall extend only to proper installation in accordance with the TDP so as not to degrade its performance and/or reliability, unless the Contractor is required to perform modification or authorized repair on such property, in which case the Contractor's warranty shall extend to such modification or authorized repair.

H.5.9.4. Unless specifically provided under this contract, this warranty is non-transferable to other than the intended user of the vehicles.

H.5.9.5. The rights and remedies of the Government provided in this clause:

a. Shall not be affected in any way by any terms and conditions of this Order concerning the conclusiveness of inspection and acceptance.

b. Are in addition to, and do not limit, any rights afforded to the Government by any other clause of this Order including, but not limited to, initial acceptance test criteria.

H.5.9.6. Individual claims where the total amount of systemic defect hardware replacement/repair prices are less than \$75,000 each will not be covered by this clause.

H.5.9.7. The Contractor shall not be liable for warranty claims if it is determined that the failed part(s) was provided by any source other than the Contractor.

H.5.9.8. The Government will provide the Contractor with reimbursement for reasonable and necessary expenses incurred for analysis, inspection and testing of alleged systemic defects where no failure is determined to have occurred and the warranty claim was asserted without reasonable cause.

H.5.9.9. The Government shall bear the costs and liability for transportation resulting from actions under this clause.

H.5.10. Bar Coding: If the Contractor elects to bar code parts or components, information collected pursuant to the Bar Coding system shall be made available to the Government upon request.

H.5.11. OTHER: The parties agree that the Order as awarded includes no direct cost for administration or contingent costs related to this warranty. The parties further agree that the Prime Contractor's own direct administrative or contingent costs related to warranty shall not be recoverable under any equitable adjustment made pursuant to the Changes clause of this contract.

H.6. MATERIAL COST

H.6.1 Obsolescence Responsibility.

H.6.1.1 With the exception of GFM, the contractor is responsible for providing all hardware for vehicles on contract. This responsibility includes microcircuits and other electronic components that are susceptible to going out of production.

H.6.2. To assure conformance to the nuclear hardness requirement of SA-S00001C, the Contractor may use electronic material that is certified as being nuclear hard to the appropriate levels. Semiconductors and higher assemblies procured from the Radiation Tolerant Assurance Source of Supply Center (RTASSC) are considered certified, to the levels and conditions specified on the corresponding White Sands Standard Drawings (WSDs). Additionally, a nuclear hardness Letter of Certification (LOC) from the RTASSC for higher assemblies will meet this material requirement. The use of source controlled drawings to ensure nuclear hardness requirements are met is no longer required. The Contractor is not responsible for the nuclear hardness of electronic material procured using WSDs and LOCs from RTASSC, to the extent and under the conditions provided by the WSDs and LOCs. For semiconductors microcircuit and higher assemblies procured from other than RTASSC, the Contractor is responsible for meeting the nuclear hardness requirements of the System Specification to the extent previously demonstrated in Government testing.

H.7. COMMINGLING OF MATERIAL

H.7.1. The Contractor and its subcontractors are authorized to commingle material produced, purchased, or otherwise furnished by the Contractor under this Delivery Order, as well as Shop Replaceable Units (SRU's) and Line Replaceable Units (LRU), and other materials provided by the Government, except for the material described in H.7.2 below. For the purpose of this provision, the same part manufactured to different revision levels may be commingled, except as described in H.7.2. below and where parts are specifically designated as obsolete by TDP revision.

H.7.2. Parts and Components which may not be commingled are:

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H.7.2.1. Engine. The Contractor will have received as GFM three types of engines: PROSE Abrams engines, SLE Abrams engines, and Egyptian Engines (for kitting).

- a. PROSE engines only go into SEP, Wolverine, and A2 to SEP A2 retro-fit vehicles.
- b. SLE engines only go into AIM vehicles.
- c. Egyptian engines only go into kits for shipment to Egypt.

H.7.2.2. Transmissions. The Contractor will have four transmission types as listed below. M1A1 Transmissions, M1A2 which are the same as the M1A1 transmission except they have a valve body change incorporated and Egyptian transmissions (M1A1).

- a. SEP M1A2 and M1A2 to SEP transmissions. These are SEP M1A2 transmissions with the valve body and go into Delivery Order 0009 SEP-Retrofit Vehicles.
- b. SEP/CEEP transmissions. These are contractor-furnished M1A2 SEP/CEEP transmissions only go into Delivery Order 0010s M1A2 SEP/CEEP Retrofit Vehicles.
- c. AIM transmissions. These are M1A1 transmissions without the valve body.
- d. Egyptian transmissions.

H.7.2.3. Cannon Assemblies. These can be either new or reclaimed. These cannot be mixed.

- a. AIM, A2 to SEP A2 Retro-fit use reclaimed cannon assemblies.
- b. SEP and GOE use new 120mm cannon assemblies.

H.8. M1A2 SEP ABRAMS RETROFIT TANK (M1A2 SEP/CEEP) PROGRAM CLOSE-DOWN

H.8.1. The Delivery Order prices do not include any direct costs associated with the close-down of the M1A2 SEP/CEEP vehicle program.

H.8.2. The Contractor's close-down actions not in the vehicle prices, based on Part 45 of the Federal Acquisition Regulations, are:

- a. Preparation of machines for shipment.
- b. Preparing final inventories, boxing and identifying special tooling, test equipment, fixtures and gages required to process parts assigned to various pieces of equipment.
- c. Boxing and protecting any special controllers, etc., that are required for machines.
- d. Layaway and ninety (90) day in-place maintenance of Government production and research property.
- e. Update of all property records for Government production and research property.
- f. Maintenance of real property from the last production delivery through 31 December 2004.

H.9. Transfer of Out of Production Material into Delivery Order DAAE07-01-G-N001/0010

H.9.1. The Government has acquired Out of Production Material through the Contractor to provide the Government and Contractor material for production and spares. This material was acquired under Contracts DAAE07-00-C-N044 and DAAE07-95-C-0292, and TACOM-Rock Island delivery orders/contracts and managed under DAAE07-01-G-N001/0001.

H.9.2. The contractor's requirements for microcircuits GFM are indicated on Attachment 005 by CLIN and in total. For several of the chips, the Government has already purchased sufficient quantities for all retrofitted tanks. (Quantities purchased are shown in the column titled SEP retrofit LCB Qty; those with sufficient quantities for all retrofitted tanks are indicated by a positive number in the column titled Short/Over.)

H.9.3. For those that don't have a sufficient quantity, the Government plans either to furnish additional GFM or change the contract by incorporating an engineering change with a replacement chip.

H.9.4. The Government has agreed to transfer to this delivery order the material quantities shown in the SEP retrofit LCB Qty column(s) under the conditions below. If, as a result of normal production attrition, the contractor requires additional chips, he may request an addition of up to 5% of the original quantity. The cost of this material will not be transferred from the original contracts. The parties agree that this material is in the possession of the contractor or on order at time of delivery order award.

- a. The Contractor is authorized utilization of material identified in Attachment 005 and shall confirm the transfer of this material from the previous contracts to this delivery order by execution of a DD Form 1149.

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b. Although still Government-owned material, the contractor shall be responsible for meeting the contract requirements as if the material were contractor-furnished. Storage, protection and accountability shall be provided in accordance with the contractor's approved practices.

H.9.5. The Contractor has confirmed that costs associated with transfer of Government provided Out of Production material identified in Attachment 005 have been excluded from the Delivery Order prices and supplier purchase orders. Should the Contractor later find this condition to have changed or to have been reported incorrectly, the Contractor shall report this condition within ten (10) days to the TACOM Contracting Officer.

H.10 SPECIAL TOOLING AND SPECIAL TEST EQUIPMENT

H.10.1. Special Tooling and Special Test Equipment acquired or accountable under Contract DAAE07-95-C-0292 to be used on this contract shall be authorized on a rent free use non-interference basis under contract DAAE07-95-C-0292.

H.11. CONTRACTOR PROVIDED MATERIAL

H.11.1. Pursuant to Clause C.13.6, the unit price of CLIN 0001AA includes the purchase of material to be utilized by Anniston. The cost to remove and replace defective equipment received from Anniston including the packaging, handling and preparation cost for return shipment to Anniston is included under CLIN 0001AA. The Government shall bear the cost to return the damaged and/or defective material to Anniston. There will be no adjustment under this contract for the labor or material. The cost of installation of material identified on Attachment 001 GFM is included in the delivery order price(s) but the removal and/or replacement is separately priced under DGM CLIN TBD.

H.11.2. If tanks are otherwise ready for acceptance and the contractor is missing Government Furnished Material including parts supplied by ANAD, the contractor may elect conditional acceptance of tanks as a remedy. Subject to verification that the conditions of this clause have been met, the Government shall conditionally accept tanks. Conditional acceptance by the Government shall be deemed to release the Government from claims for equitable adjustment for late delivery of Government Furnished Material on any tanks so accepted.

H.12 OPTION FOR INCREASED QUANTITIES

H.12.1 The Government contemplates adding an option quantity of 64 vehicles prior to definitization of this unpriced contractual action. In the event an option quantity is added to this contract, it shall be in writing and executed by both parties as a bilateral modification to this contract. The Government may add these 64 tanks in one increment and with fielding schedule shown in Section F.

H.13 LIMITATION OF GOVERNMENT LIABILITY

H.13.1 Pursuant to FAR 52.216-24 (APR 1984):

H.13.2 In performing this contract, the contractor is not authorized to make expenditures or incur obligations exceeding \$121,756,000.

H.13.3 The maximum amount for which the Government shall be liable if this contract is terminated is \$121,756,000.

H.14 CONTRACT DEFINITIZATION (October 1998) DFAR 252.217-7027

H.14.1 A Firm Fixed Price definitive price is contemplated for the Abrams M1A2 SEP/CEEP Retrofit tanks described in the schedule under CLIN 0001AA. The contractor agrees to begin promptly negotiating with the Contracting Officer the terms of a definitive price for CLIN 0001AA in the Schedule and the terms of a definitive contract to include 1) all clauses required by the Federal Acquisition Regulation (FAR) on the date of execution of the definitive contract, 2) all clauses required by law on the date of execution of the definitive contract, and 3) any other mutually agreeable clauses, terms, and conditions. The contractor agrees to submit a fixed-price proposal and cost or pricing data supporting its proposal for each CLIN in the Schedule.

H.14.2 The schedule for definitizing the unpriced CLINs in the schedule of the Contract is:

Submission of a Qualifying Proposal:	60 Days after award
Completion of Negotiations:	150 Days after award
Completion of Definitization:	180 Days after award

H.14.3 If agreement on a definitive contract to supersede this letter contract is not reached by the target date in paragraph H.14.2 of this section, or within any extension of it granted by the Contracting Officer, the Contracting Officer may, with the approval of the head of the contracting activity, determine a reasonable price or fee in accordance with Subpart 15.4 and Part 31 of the FAR, subject to Contractor appeal as provided in the Disputes clause. In any event, the Contractor shall proceed with completion of the contract, subject only to the Limitation of Government Liability clause.

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN DAAE07-01-G-N001/0010 MOD/AMD 04	Page 47 of 49
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H.14.3.1 After the Contracting Officer's determination of price or fee, the contract shall be governed by --

(i) All clauses required by the FAR on the date of execution of this letter contract for either fixed-price or cost-reimbursement contracts, as determined by the Contracting Officer under this paragraph H.14.3;

(ii) All clauses required by law as of the date of the Contracting Officer's determination; and

(iii) Any other clauses, terms, and conditions mutually agreed upon.

H.14.3.2 To the extent consistent with subparagraph H.14.3.1 of this section, all clauses, terms, and conditions included in this letter contract shall continue in effect, except those that by their nature apply only to a letter contract.

H.15 Reserved

H.16 Manufacturing Analysis and Planning (MAP)

H.16.1 The contract price(s) and deliverable configuration were established based on a known configuration of Government Furnished 16th Year Abrams vehicles. The combined base and option(s) quantity of this procurement exceeds the quantity of Government Furnished 16th Year vehicles available for induction, retrofit and subsequent delivery as M1A2 SEP configured retrofit tanks. The Government has determined that inducted GFM vehicles will be a combination of 16th, 17th and 18th year structures as identified at Attachment 001.

H.16.2 The parties recognize that the contractors trade studies under work directive MAP-15/Contract DAAE07-02-C-0004 for the conversion of 17th and 18th year M1A2s to SEPs may not be completed prior to the award of the option quantities. Any award of option quantities or definitization of any vehicle using 17th and 18th Year inducted M1A2 vehicles is predicated upon the Governments continued funding and the accomplishment of the requisite MAP effort for that years vehicle.

H.17. Escalation Provision for Power & Metals. The contractor has notified the Government of his intent to negotiate an escalation provision for the price of power & metals at time of the definitization of the letter contracts price. The contractor may include a proposed clause in his definitization proposal. Both parties agree, however, that the ceiling price of the letter contract is not subject to any such clause or escalation.

H.18 Performance-Based Payments (PBP). Both parties anticipate negotiating a performance-based-payment plan at definitization of the letter contracts price.

H.19 GOVERNMENT SUPPLY SYSTEM

The contractor is authorized to purchase material from the Government Supply System in accordance with C.13.6 (Supply Support), to obtain certain items that have historically been GFM, and to provide fielding support. The contractor is authorized to purchase material from this supply system provided the item manager concurs. The contractor shall assume complete responsibility for any such item as if he had made it and shall hold the Government harmless as regards the item.

H.20. Material Management Accounting System (MMAS) For Anniston Material

H.20.1 The contractor believes that, even without the Inventory Control System in C.13.7, he is in compliance with DFARS 252.242-7004 for material provided to ANAD. The DCAA has issued an audit on this subject. The parties agree to resolve this issue prior to definitization.

H.21 Transmission Re-opener.

H.21.1 Allison Transmission has conditioned (Allison letter DT:P002-008, dated 16 March 2004) its proposed subcontract price on the subsequent award of the anticipated option (64) in this contract, a contract for a minimum of 125 new X1100 transmissions for Egypt, and a minimum 125 X200 transmission upgrades. The contractor agrees that any adjustment to this letter contracts ceiling price will not exceed \$1.8M in the event any of these contracts is not awarded.

The Terms and Conditions and contract clauses specific to Section H of the Basic Order Agreement (DAAE07-01-G-N001) are incorporated by reference into this Delivery Order DAAE07-01-G-N001/0010 with the exception of the following:

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Name of Offeror or Contractor: GENERAL DYNAMICS LAND SYSTEMS INC.		

*** END OF NARRATIVE H 002 ***

SECTION J - LIST OF ATTACHMENTS

List of Addenda	Title	Date	Number of Pages	Transmitted By
Exhibit A	CONTRACT DATA REQUIREMENTS LIST			
Exhibit B	SEP/ CEEP CONFIGURATION			
Exhibit C	PERFORMANCE BASED PAYMENTS AND CERTIFICATIONS			
Attachment 001	M1A2 TO SEP W/CEEP LRU GFM LIST			
Attachment 002	GOVERNMENT FURNISHED MATERIAL REPORTING			
Attachment 003	LRU PRODUCT FABRICATION SPECIFICATION			
Attachment 004	GDAO RECLAMATION SITES			
Attachment 005	LAST CHANCE BUY LIST			
Attachment 006	COMPONENT FAT LIST			
Attachment 007	AUTHORIZED STOCKAGE LIST (ASL/PLL)			
Attachment 008	COMPONENTS OF END ITEMS (COEI)			
Attachment 009	GOVERNMENT-FURNISHED SPECIAL TOOLS/SPECIAL TEST EQUIPMENT			
Attachment 010	PRE-EXISTING SYSTEM SPECIFICATION NON-CONFORMANCES			
Attachment 011	PRE-EXISTING SOFTWARE TEST REPORTS			
Attachment 012	SINGLE PROCESS ACCEPTANCE INITIATIVE DOCUMENT PARTS I & II			
Attachment 013	SPAID PART I COMPLETION CERTIFICATION			

SECTION J

LIST OF SECTIONS

SECTION	TITLE
B	SUPPLIES/SERVICES & PRICES
C	DESCRIPTION/SPECIFICATIONS
D	PRESERVATION/PACKAGING/PACKING
E	INSPECTION & ACCEPTANCE
F	DELIVERIES OR PERFORMANCE
H	SPECIAL PROVISIONS
I	GENERAL PROVISIONS (SEE BOA DAAE07-01-G-N001)
J	LIST OF SECTIONS, EXHIBITS AND ATTACHMENTS

*** END OF NARRATIVE J 001 ***

PIIN/SIIN DAAE07-01-G-N001/0010
MOD/AMD 04
ATT/EXH ID Exhibit A
PAGE 1

EXHIBIT A
CONTRACT DATA REQUIREMENTS LIST

CONTRACT DATA REQUIREMENTS LIST

Form Approval OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E. _

A. CONTRACT LINE ITEM NO.: 0001 B. EXHIBIT: A C. CATEGORY:
D. SYSTEM/ITEM: M1A2 SEP RETROFIT TANK E. CONTRACT/PR NO.: F. CONTRACTOR: GDLS

1. DATA ITEM NO. A001
2. TITLE OF DATA ITEM: DI-QCIC-80736
3. SUBTITLE: DGM Report
4. AUTHORITY : 5. CONTRACT REFERENCE: B.4.2, E.5.1 6. REQUIRING OFFICE: SFAE-GCSS-W-AB-QA
7. DD250 REQ: No
9. DIST. STATEMENT REQUIRED: No 10. FREQUENCY: As Required 12. DATE OF FIRST SUB: NA
8. APP CODE: 11. AS OF DATE: 13. DATE OF SUBS. SUB:

14. DISTRIBUTION A. ADDRESSEES B. COPIES DRAFT FINAL
SFAE-GCS-CS-CC menzeld@tacom.army.mil 0 1
SFAE-GCS-CS-Q DunklinB@tacom.army.mil 0 1
15. TOTAL: 0 2

16. REMARKS: Report shall be made to the cognizant Government QAR using either DGM report or SF368. Report shall be submitted immediately in case of Category I deficiency; follow-up documentation within 2 days. Category II reports shall be submitted within two days of deficiency discovery. Info copy of completed SF 368 shall be included with all shipments of deficient material returned to the Government. LATP/QAR shall continue to have access to CDRL A001 data via GDLS' TIP-QA system.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO.: 0001 B. EXHIBIT: A C. CATEGORY:
D. SYSTEM/ITEM: M1A2 SEP RETROFIT TANK E. CONTRACT/PR NO.: F. CONTRACTOR: GDLS

1. DATA ITEM NO. A002
2. TITLE OF DATA ITEM: Configuration Control Changes
3. SUBTITLE: Contractor Change Notice
4. AUTHORITY : 5. CONTRACT REFERENCE: C.5 & Atch. 003 6. REQUIRING OFFICE: SFAE-GCSS-W-AB-QA.
7. DD250 REQ: No 9. DIST. STATEMENT REQUIRED: No 10. FREQUENCY: As Required 2. DATE OF FIRST SUB: NA
8. APP CODE: 11. AS OF DATE: 13. DATE OF SUBS. SUB:

14. DISTRIBUTION A. ADDRESSEES B. COPIES DRAFT FINAL
SFAE-GCS-CS-SP ketchumr@tacom.army.mil 1 1
SFAE-GCS-CS-L mccaulyr@tacom.army.mil 1 1
SFAE-GCS-CS-S harjuw@tacom.army.mil 1 1
AMSTA-LC-CAEB (NOTE 1) regenhaj@tacom.army.mil 0 1 NOTE 1
AMSTA-LC-CAEB (NOTE 1) wilsonl@tacom.army.mil 0 1 NOTE 1
15. TOTAL: 3 5

16. REMARKS: Electronic notification of any CR, RFW, RFD, ECP to the technical data package shall be provided to the offices listed in block 14. MIL-STD-973 format is to be used as a guide. Logistics impact is to be conspicuously marked. This notice does not replace the requirement for ECPs to be presented to a Government Configuration Control Board. NOTE 1: Deliver ONLY if CR/ECP/RFD/RFP affects System Specification, Prime Item Product Fab Specification, defined LRU Prod Fab Specifications, or the FIR for the vehicle.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO.: 0001 B. EXHIBIT: A C. CATEGORY:
D. SYSTEM/ITEM: M1A2 SEP RETROFIT TANK E. CONTRACT/PR NO.: F. CONTRACTOR: GDLS

1. DATA ITEM NO. A003
2. TITLE OF DATA ITEM: Configuration Status Accounting and Engineering Records (ECAR)
3. SUBTITLE: STA Form 1605, ECAR
4. AUTHORITY : 5. CONTRACT REFERENCE: C.5.4 6. REQUIRING OFFICE:

7. DD250 REQ: No
9. DIST. STATEMENT REQUIRED: No 10. FREQUENCY: As Required 12. DATE OF FIRST SUB: NA
8. APP CODE: 11. AS OF DATE: 13. DATE OF SUBS. SUB:

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES	DRAFT	FINAL
	AMSTA-TR			1
	DCMDE-GJQB Paul.Gherian@dcma.mil			1
	AMSTA-GDC			1
15. TOTAL:				3

16. REMARKS: STA Form 1605, ECAR, shall be submitted within 5 days after incorporation of changes in production configuration. The Contractor shall provide electronic copies of the form.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: I. APPROVED BY:
H. DATE: J. DATE:

A. CONTRACT LINE ITEM NO.: 0001 B. EXHIBIT: A C. CATEGORY:
D. SYSTEM/ITEM: M1A2 SEP RETROFIT TANK E. CONTRACT/PR NO.: F. CONTRACTOR: GDLS

1. DATA ITEM NO. A004
2. TITLE OF DATA ITEM: GFM Reporting
3. SUBTITLE: GFM Reporting
4. AUTHORITY : 5. CONTRACT REFERENCE: F.2.1 & Atch 2 6. REQUIRING OFFICE:SFAE-GCSS-W-AB-C.
7. DD250 REQ: No 9. DIST. STATEMENT REQUIRED: No 10. FREQUENCY: Weekly 2. DATE OF FIRST SUB: NA
8. APP CODE: 11. AS OF DATE: 13. DATE OF SUBS. SUB:

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES	DRAFT	FINAL	16. REMARKS:
	SFAE-GCSS-CS-CC menzeld@tacom.army.mil	0		1	
	SFAE-GCSS-CS-SP ketchumr@tacom.army.mil	0		1	
	DCMDE-GJQB Richard.Burba@dcma.mil	0		1	
15. TOTAL:				3	

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

A. CONTRACT LINE ITEM NO.: 0001 B. EXHIBIT: A C. CATEGORY:
D. SYSTEM/ITEM: M1A2 SEP RETORFIT TANK E. CONTRACT/PR NO.: F. CONTRACTOR: GDLS

1. DATA ITEM NO. A005
2. TITLE OF DATA ITEM: Tank Team Reports in Contractor format
3. SUBTITLE:
4. AUTHORITY : 5. CONTRACT REFERENCE: 6. REQUIRING OFFICE:AMSTA-LC-CAEB 7. DD250 REQ: No
9. DIST. STATEMENT REQUIRED: No 10. FREQUENCY: As Required 12. DATE OF FIRST SUB: NA
8. APP CODE: 11. AS OF DATE: 13. DATE OF SUBS. SUB:

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES	DRAFT	FINAL
	AMSTA-AQ-AHEB starrk@tacom.army.mil		0	1
15. TOTAL:				1

16. REMARKS: electronic reporting:starrk@tacom.army.mil
All Reports are copies of GDLS internal reports. Required reports are: (Mon=Monthly; CTD=Contract Award to Date)
Manpower Burden Center Work Force Report (Royal Latshaw)//Actual Hours by Contract Monthly/Contract to Date// Shop Floor Control Hours by Contract Mon/CTD//Efficiency by Contract Mon/CTD//Direct Labor Cumulative Transfer Hours Actuals and Shop Floor Control Hours//Hours Per Unit Report 1A-C//Direct Labor by Contract (Patrick Schymanski)// Mfg. Performance Contract History Report (Paul Gorishek) Mon// Total Operational Labor Hours For Discreet Contract Changes, Tank and Propulsion Product Line Allocations, Control Tests, and Tool/Maintenance (Carol Brockett))// All Plants-Current Mon/6 Month Average Efficiency by Department Report.(Roger Fachini).

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: I. APPROVED BY:
H. DATE: J. DATE:

A. CONTRACT LINE ITEM NO.: 0004 B. EXHIBIT: A C. CATEGORY:
D. SYSTEM/ITEM: M1A2 SEP ABRAMS E. CONTRACT/PR NO.: F. CONTRACTOR: GDLS

1. DATA ITEM NO. A006
2. TITLE OF DATA ITEM: OT-87-12065(T) Component First Article Test Status Reports
3. SUBTITLE: FAT Flash Report
4. AUTHORITY : 5. CONTRACT REFERENCE: C.16 6. REQUIRING OFFICE:SFAE-GCSS-W-AB-QA.
7. DD250 REQ: No 9. DIST. STATEMENT REQUIRED: No 10. FREQUENCY:As Required 2. DATE OF FIRST SUB: NA
8. APP CODE: 11. AS OF DATE: 13. DATE OF SUBS. SUB:

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES	DRAFT	FINAL
	SFAE-GCS-AB-Q	mieszczt@tacom.army.mil	1	0
	AMSTA-TR-E/tank		1	0
	AMSTA-AR-QAW-C		1	0
	DCMDE-GJQB Julie.Stammen@dcma.mil		0	1
		15. TOTAL:	3	1

16. REMARKS: Reports are submitted when FAT test (list in Attachment 002) failures/incidents occur. Electronic reports shall go to DCMDE-GJQB at Julie.Stammen@dcma.mil for distribution to other Government Offices.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

1. DATA ITEM NO. A007
2. TITLE OF DATA ITEM: Failure Analysis and Corrective Action Plan OT-91-12221
3. SUBTITLE: VEHICLE VERIFICATION & COMPONENT CONTROL TEST FLASH REPORTS
4. AUTHORITY : 5. CONTRACT REFERENCE: E.6.7, E.6.4., E.11.2 6. REQUIRING OFFICE: SFAE-GCS-W-AB-QA.
7. DD250 REQ: No 9. DIST. STATEMENT REQUIRED: No 10. FREQUENCY: See Blk 16 2. DATE OF FIRST SUB: NA
8. APP CODE: 11. AS OF DATE: 13. DATE OF SUBS. SUB:

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES	DRAFT	FINAL
	SFAE-GCS-CS-Q	meiszczt@tacom.army.mil	0	1
	SFAE-GCS-CS-S	harju@tacom.army.mil	0	1
	SFAE-GCS-CS-CC	menzeld@tacom.army.mil	0	1
	AMSTA-TR-E-tank		0	1
	AMSTA-AR-QAW-C		0	1
	AMSTA-AR-QAC-F		0	1
		15. TOTAL:	0	6

16. REMARKS: Contractor notification of test incident failure is required within the following time frame for Component and Control Testing: Verbal notification within two (2) working days (POC T. Mieszcztak, 586-574-5921, Mieszczt@tacom.army.mil <<mailto:Mieszczt@tacom.army.mil>>). Written report within eight (8) working days. Contractor notification of test incident failure is required within the following time frame for Verification Testing: Interim written Failure Analysis & Corrective Action Plan due within 21 days of test incident with final written report within 45 days of test incident.

17. PRICE GROUP: 18. ESTIMATED TOTAL PRICE:

G. PREPARED BY: I. APPROVED BY:
H. DATE: J. DATE:

EXHIBIT B

SEP WITH CEEP LRU CONFIGURATION

ENGINEERING RELEASE RECORD
ERR GDLU6330 dated 14 April 2004

THE FOLLOWING ECP'S ARE ADDED TO THE CONFIGURATION

GDLU6351 Replace Roadarm Spindles

THE FOLLOWING ECPs ARE NOT PRICED IN ERR GDLU6330

GDLU2294	Replace Alternator Clamp and Gasket
GDLU6188	Improved Sprocket Design
GDLU6192	Release new Turret Armor
GDLU6195	Lubrication Chart Update
GDLU6199	Grille Door Retention Hardware
GDLU6285	Release new 400 Hz and DC Power Supplies to FCEU's
GDMY0709	New PPC Gasket
GDMY1914	Prevent Fire Extinguisher Tube Contact
L3T1040	Bustle Rack Extension
L9T1009	Knee Switch Lever Reinforcement
GDLU6312	MPU Power Supply Change
GDLU2195	New rear grille door hook
GDMY1842	Reconfigure NBC mounting plate assembly
GDMY2078	Exhaust duct seal retainer holes changed to slots

UAAPU REQUIREMENTS

The Under Armor Auxiliary Power Unit (UAAPU) requirements in the TDP are changed as follows:

Do not perform the following hull structure operations:

- cutout of UAAPU exhaust hole
- cutout of UAAPU manifold access hole
- cutout of IPS exhaust hole
- drill and tap of (4) holes for attaching IPS exhaust cover
- drill and tap of hole that retains manifold access cover
- addition of (5) UAAPU mounts
- addition of (4) appurts for attaching the UAAPU exhaust cover
- addition of retainer for manifold access cover

Do not assemble the following components:

- UAAPU exhaust cover
- UAAPU manifold access cover
- IPS exhaust cover

PERFORMANCE BASED PAYMENTS AND CERTIFICATIONS

TBD

ATTACHMENT 001

M1A2 TO SEP WITH CEEP LRUs GFM LIST

16th, 17th & 18th YEAR ABRAMS (M1A2) TO SEP with CEEP LRUs VEHICLES AT ANAD RETROFIT GFM LIST**

PART NAME	PN	USG	NSN	DEL SITE	NEW(N) REB(R)***
TURRET STRUCTURE SET *	12549929-1	1	NA	LATP	R
HULL STRUCTURE SET *	12387286-R16	1	NA	LATP	R
ENGINE, PROSE	12284500-1	1	2835-01-318-1537	LATP	R
DECU, M1A2	12324820	1	5995-01-331-1526	LATP	R
FINAL DRIVE	12321701	2	2520-01-073-7665	LATP	R
ROAD WHEELS	12324548	32	2530-01-201-4816	LATP	R
TRACK T158LL	12387880-4	2	2530-01-435-5175	LATP	N
120MM GUN	9377499-A10	1	NA	LATP	R
GP PRECLEANER	D5-19-2353	1	4240-01-026-3112	LATP	N
GP FILTER M18	5-19-2300	2	4240-01-365-0982	LATP	N
GRENADE STOW BOX	81361-13-12-176	2	1040-01-208-7115	LATP	R
SGBICU	TBD	1			
SGTRU (minus B Kit)	TBD	1			
CITV EU	TBD	1			
CITV SIGHT ASY (minus B Kit)	TBD	1			
CITV ARMOR CAP	TBD	1			
CITV RING	TBD	1			
CITV AZI DRIVE	TBD	1			
Afocal Assembly	A3248350	1	New GFM Block 1 FLIR		
Detector/Cooler Bench	A3271797	1	New GFM Block 1 FLIR		
Imager Assembly	A3271798	1	New GFM Block 1 FLIR		
Motor Control (MC) CCA	TBD	1	New GFM Block 1 FLIR		
Common Power Supply	TBD	1	New GFM Block 1 FLIR		
Interface Graphics CCA	TBD	1	New GFM Block 1 FLIR		
Adv Video Processor	TBD	1	New GFM Block 1 FLIR		
EMI Filter Assembly	TBD	1	New GFM Block 1 FLIR		
TIS Power Supply CCA	TBD	1	New GFM Block 1 FLIR		
AEGR/SAASM	TBD	1	New GFM Card Modified for SAASM		
VIS KIT	A3206105	1	5830-01-395-7448	LATP	N
ITT KIT	A3157975	1	5820-01-387-5002	LATP	N
#1 RIGHT SKIRT	12323644	1	NA	LATP	R
#2 RIGHT SKIRT	12323650	1	NA	LATP	R
#3 RIGHT SKIRT	12323653	1	NA	LATP	R
#4 RIGHT SKIRT	12323656	1	NA	LATP	R
#5 RIGHT SKIRT	12280313	1	NA	LATP	R
#6 RIGHT SKIRT	12280312	1	NA	LATP	R
#1 LEFT SKIRT	12323641	1	NA	LATP	R
#2 LEFT SKIRT	12323645	1	NA	LATP	R
#3 LEFT SKIRT	12280308	1	NA	LATP	R
#4 LEFT SKIRT	12280309	1	NA	LATP	R
#5 LEFT SKIRT	12280310	1	NA	LATP	R
#6 LEFT SKIRT	12280311	1	NA	LATP	R
ANTENNA	12438582	1	5985-01-422-4719	LATP	N
RIGHT INNER ASSY	12467582	1	NA	LATP	N
RIGHT OUTER ASSY	12468502	1	NA	LATP	N
LEFT INNER ASSY	12467587	1	NA	LATP	N
LEFT OUTER ASSY	12468503	1	NA	LATP	N
GERMANIUM WINDOW ****	12466940	1.2	NA	ANAD	R

* Hull and Turret sets shall be provided to the contractor in quantity and sequence as follows:

1st, 81 each 16th year hull and turret sets (first 65 sets are for basis contract requirement and 16 sets for option requirement)
2nd, 26 each 17th year hull and turret sets (26 sets for option requirement)
3rd, 22 each 18th year hull and turret sets (22 sets for option requirement)

** Traditional GFM List and expected disposition of new vs reclaim/rebuild. May require rate of new parts for reclaim washouts.

*** Reclaim vs new disposition is dynamic at this point and may change as we get smarter.

**** If any additional Germanium is needed to complete the contract, the contractor may request additional GFM Germanium Windows to fill the shortage. If additional Germanium Windows are available, the Government may provide the windows in accordance with Section C.13.5.2.

ATTACHMENT 002

GOVERNMENT FURNISHED MATERIAL REPORTING

ATTACHMENT 002

GOVERNMENT FURNISHED MATERIAL (GFM) REPORTING

1. Plant Wide Reporting to Include:

Detroit - Lima - Sterling - TLH - ANAD - Muskegon

2. Each plant shall report on the inventory status of GFM by production year utilizing the format below. Reports are required to be submitted monthly with cut-off at the end-of-the-week (Friday). Reporting is to start 45 days after contract award, with subsequent contract year reporting to start with receipt of that production year's GFM. The reports are to be in accordance with guidance provided below. Each report is to be rendered via electronic update to CCAM data base.

3. GFM Profile Report - Data Element Definitions:

TITLE

Line 1 - M1A2 SEP Plant
Line 2 - Production Year
Line 3 - Contract Number
Line 4 - Date updated, Net Receipt, DGM, and Run Production
Line 5 - Plant P.O.C. for Report

Header

1.	Item Number	Item number assign to part
2.	Part Name	Noun nomenclature of part
3.	Part Number	Part number of Item
4.	NSN	National Stock Number assigned to part
5.	Use Factor	Number used per tank
6.	Net Receipts	Total assets received for production year
7.	Cum Production	Assets released to production floor
8.	DGM Stocks	Assets returned to Government by contractor as defective in DGM crib
9.	Production Stock	Assets in GFM crib available for release to production floor
10.	Work Days to DDD	Work days to Drop Dead Date number of days. Number of assets in Column 9 divide by daily production rate.

ATTACHMENT 003

LRU PRODUCT FABRICATION SPECIFICATION

ATTACHMENT 003

SEP with CEEP LRU PROGRAM

SEP LRU PRODUCT FABRICATION SPECIFICATIONS

The following lists SEP Product Fabrication Specifications for Line Replaceable Units.

Analog Input Module (AIM) (SC-SA15190A, dated 11 May 00)
Gunner's Primary Sight (GPS), (SC-SA17200B, dtd. 1 Jun 00)
Hull Power Distribution Unit (HPDU), (SC-SA15180B, dtd 4 Jun 99)
Hull Remote Switching Module (HRSM), (SC-SA15150B, dtd. 6 Apr 00)
Mass Memory Unit (MMU), (SC-SA17700, dtd 9 Sep 02)
Prime Power Controller(PPC), (SC-SA16900A, dtd 4 Jun 99)
Thermal Management System (TMS), (SC-SA15220, dtd 4 Jun 99)
Turret Remote Switching Module (TRSM), (SC-SA16330A, dtd 4 Jun 99)

CEEP LRU PRODUCT FABRICATION SPECIFICATIONS

The following lists CEEP Product Fabrication Specifications for Line Replaceable Units.

Improved Gunner's Control and Display Panel (IGCDP) (SC-SA18100)
Improved Driver's Integrated Display (IDID)(SC-SA18000)
Improved Commander's Electronic Unit (ICEU)(SC-SA17600)
Improved Commander's Display Unit (ICDU)(SC-SA17900)
Improved Hull Mission Processor Unit (IHMPU)(SC-SA17800)
Improved Turret Mission Processor Unit (ITMPU)(SC-SA17800)

ATTACHMENT 004

GDAO RECLAMATION SITES

ATTACHMENT 004

SHIPMENT FROM GDAO TO VARIOUS RECLAMATION SITES

GDAO to Tallahassee:

<u>Part Name</u>	<u>Par Number</u>	<u>Quantity</u>
Loaders Panel	12282835-R	1
Shift Selector	12311017-R	1
HRSM Assembly	12387185-2-R	3
AIM Assembly	12387430-2-R	1
PJS Control Unit	12387589-R	1
AJBA	12387925-R	1
HPDU Assembly	12387899-3-R	1
CANT Unit	12548046-R	1
HTPS Assembly	12549942-R	1
FCEU Assembly	12931199-12-R	1
TRSM Assembly	12932230-2-R	2

GDAO to Scranton:

<u>Part Name</u>	<u>Part Number</u>	<u>Quantity</u>
Torsion Bar Spring	12346262-1-R	7
Torsion Bar Spring	12346262-2-R	7
Ring	12549105-R	1
Retainer	12274445-R	8
Arm Assembly	12274457-1-R	1
Arm Assembly	12274457-2-R	1
Hub, Wheel	12274509-R	16
Washer	12274522-R	16
Arm Assembly	12311298-1-R	2
Arm Assembly	12311298-2-R	2
Arm Assembly	12311299-1-R	4
Arm Assembly	12311299-2-R	4
Spacer	12324353-R	6
Housing Assembly	12346149-R	8
Retainer	12326269-1-R	3
Retainer	12326269-2-R	3
Spacer	12347411-R	8
Turntable	12548064-R	1
Ring, Lower	12548805-R	1
Retainer	12548806-R	1
Ring, Upper	12549097-R	1
Weldment, Loaders Hatch	12931498-R	1
Shock Housing	12346481-R	6
Retainer	12346274-R	8
Retainer	12346272-R	8
Anchor	12346270-R	8
Washer	6295383 R	8

GDAO to Muskegon:

<u>Part Name</u>	<u>Part Number</u>	<u>Quantity</u>
Replenisher	12274340-R	1
Track Support Roller	12274460-R	4
Door Assembly	12316636-R	1
Drivers Hatch	12347211-R	1
Lock Assembly	12549784-R	1
Platform	12918260-29-R	1
Hub & Sprocket Assembly	9500460-R	2
Weapon Mount Assembly	12549030-R	1
Hatch & Mechanism	12549045-R	1

GDAO to IVO:

<u>Part Name</u>	<u>Part Number</u>	<u>Quantity</u>
Wiring Harness Assembly	12347107-R	1
Wiring Harness Assembly	12347108-R	1
Wiring Harness Assembly	12347109-R	1
Wiring Harness Assembly	12347110-R	1
Wiring Harness Assembly	12347142-R	1
Wiring Harness Assembly	12347143-R	1
Wiring Harness Assembly	12347144-R	1
Wiring Harness Assembly	12347145-R	1
Wiring Harness Assembly	12347182-R	1
Wiring Harness Assembly	12347183-R	1
Wiring Harness Assembly	12347293-1-R	1
Wiring Harness Assembly	12347293-2-R	1
Wiring Harness Assembly	12347293-3-R	1
Wiring Harness Assembly	12347293-4-R	1
Wiring Harness Assembly	12347293-6-R	1
Wiring Harness Assembly	12347293-7-R	1
Wiring Harness Assembly	12347293-8-R	1
Wiring Harness Assembly	12347293-9-R	1
Wiring Harness Assembly	12347293-10-R	1
Wiring Harness Assembly	12347293-11-R	1
Wiring Harness Assembly	12347293-13-R	1
Wiring Harness Assembly	12347293-14-R	1
Wiring Harness Assembly	12347294-R	1
Wiring Harness Assembly	12347296-2-R	1
Wiring Harness Assembly	12347296-3-R	1
Wiring Harness Assembly	12347296-4-R	1
Wiring Harness Assembly	12347297-2-R	1
Wiring Harness Assembly	12347297-3-R	1
Wiring Harness Assembly	12347297-4-R	1

GDAO to Suppliers:

<u>Part Name</u>	<u>Part Number</u>	<u>Quantity</u>
Gunners Handle Assembly	12283113-3-R	1
Elevation Mechanism	12283115-R	1
Traverse Mechanism	9377743-R	1
Azimuth Servo Assembly	9377769-R	1
Elevation Servo Assembly	9377770-R	1
POS/NAV Assembly	12346300-17-R	1

ATTACHMENT 005

LAST CHANCE BUY
MICROCIRCUIT CHIP ADJUSTMENT LIST

ATTACHMENT 005

LAST CHANCE BUY MICROCIRCUIT CHIP ADJUSTMENT LIST

Obsolete P/N	Tank Qty	Qty Requd (Base 65/Opt. 64)	LCB QTY	Nomenclature	Priced In BOM	LCB Contract Number / CLIN
12930791	1	65	66	RISC Processor	No	C-0292 / 7013AA DO 0001 / 1009AA
R29623ADM/883	2	130	222	4K Bit PROM	No	C-0292 / 7013AA DO 0001 / 1010AA
HS9476S/B	1	65	199	A/D Converter	No	C-N044 / 2002AA
HS9378T/B	4	260	158	D/A Converter	No	DO 0001 / 1011AA
12438224	5	325	1274	DRAM	No	DO 0001 / 2012AA
WED3C750A8M-200CM	1	65	459	PowerPC Microprocessor 750	No	DO 0001 / 1030AA
12438235	1	65	165	Voltage Supervisor	Yes	DO 0001 / 1014AA
12438214	2	130	330	Serial Comm Controller	Yes	DO 0001 / 1015AA
M38510/10305BEX	1	65	2477	Voltage Comparator	Yes	C-N044 / 2002AB
M38510/30108BCA	2	130	358	J-K Flip Flop	No	DO 0001 /
920-126-00-380M	3	195	500	Monochrome Glass	No	DO 0001 / 1033AA
PCF40N10DR4424	296	19240	59567	Field Effect Transistor (FET)	No	DO 0001 / 1032AA
SLCF512HI	20	1300		MMU CompactFlash Card	Yes	DO 0001 /

ATTACHMENT 006

COMPONENT FAT LIST

Attachment 006

Components requiring First Article Testing (FAT):

<u>Part Number</u>	<u>Description</u>	<u>Supplier</u>
12467508	ICDU	GDLS-TLH
12467369	Bezel Switch Assy	LSI
12467385	Power Supply	Rantec
12470351	Im.Com. Color Tac Dis.	GDLS-TLH
12470358	Monochrome Display	GDLS-TLH
12474105	Display Panel Con. Module	GDLS-TLH
12467507	ICEU	GDLS-TLH
12467516	Power Supply	Lambda
12474135	IGPP, W/Graphics PMC	Radstone
12474136	IGPP, W/1553B PMC	Radstone
12467509	IDID	GDLS-TLH
12467479	Auto. Bezel Swtich Assy.	LSI
12467480	M/OSB Bezel Switch Assy.	LSI
12473977	Power Supply	Rantec
12474132	IGPP, W/1553B & Graphic	Radstone
12467510	IGCDP	GDLS-TLH
12473975	Bezel Switch Assy.	LSI
12467506	ITMPU	GDLS-TLH
12473112	Wire Harness Assy	Sabritec
12932496	Beamsplitter	Optex
12474122	IGPP W/1553B & UBSPCH	Radstone

ATTACHMENT 007

AUTHORIZED STOCKAGE LIST/PREScribed LOAD LIST (ASL/PLL)

NSN	PART NUMBER	NOUN	QTY	RIC
1220014442915	12977545	SERVO EU W/CONT	2	B14
1220014835326	57K4090	CEU W/CONTAINER	2	B14
1220014929051	57K4076	IFCEU W/CONTAINER	2	B14
1240014440547	12977552	SERVO EU,EMI FILTER	2	B14
1240014440548	12977590	HEAD MIRROR	1	B14
1240014571698	57K2986	DAHA W/CONTAINER	1	B14
1240014612659	57K4032	GPS BODY W/CONT	1	B14
1240014634272	12987770-2	BICU W/CONTAINER	2	B14
1240014726616	12466941	GPS HEAD ASSY	1	B14
1270014440550	12978047-3	CRT 1 & 2	2	B14
1270014643971	57K4011	TMPU W/CONTAINER	1	B14
1290014665327	12437404	GRIP ASSEMBLY	3	B14
1290014667722	12549968-5	COMMANDER'S HANDLE	3	B14
1290014721851	57K4065	CDU W/CONTAINER	2	B14
4130014494404	A3248340	TRU BLOWER	3	B16
4130014752687	12438462-2	VCS UNIT ASSY W/CON	2	B14
4140014440543	12977647-1	CITV FAN	2	B14
4210014919279	12437443	DRY POWDER BOTTLE	10 (6- ASL,4- PLL)	AKZ
5365014440541	12977640	SLIP RING	1	B14
5855014516429	A32481111	SGC ELECTRONICS UNIT	3	B16
5855014516430	A32481112	CITV COMMON EU	2	B16
5855014618089	12437296	OPTICAL RELAY	2	B14
5855014624258	12987753-2	CITV SIGHT ASSY W/CON	2	B14
5855014635832	12987790-2	TRU W/CONTAINER	2	B14
5855014637372	A3271799-2	DET/COOLER BENCH	3	B16
5855014641513	A3271798-2	IMAGER ASSEMBLY	3	B16
5855014703004	12467279	CITV DISPLAY	2	B14
5895014691275	57K4068	HMPU	2	AKZ
5930014665329	12437403	PALM SWITCH	3	B14
5930014667724	12437476-4	FOV SWITCH	3	B14
5930014667726	12437400	CURSOR	3	B14
5930014677462	12437402	FIRE SWITCH	3	B14
5930014697113	12438697	BEZEL/SWITCH ASSY	1	B14
5930014700205	12437476-1	LASER SWITCH	3	B14
5962015019030	12472983-2	MEMORY CARTRIDGE	4	B14
5975014505608	A3248295	MOUNTING BASE ELECT	1	B16
5995014633759	A3248335	WIRING HARNESS (W1)	1	S9G
5996014440537	12977626	GYRO PREAMP	1	B14
5998014440571	12977565	SERVO PS CCA	2	B14
5998014440576	12978060	BICU MONO DEFLECT	2	B14
5998014440578	12987768	MOTHER BOARD PWD	1	B14
5998014440579	12978085	BICU RS-442 CCA	2	B14
5998014440580	12978070	BICU VIDEO/SYNC CCA	2	B14
5998014467222	A3271793	COOLER CONTROL	2	B16
5998014494403	A3246939	SCANNER CONTROL	2	B16
5998014494405	A3246947	VIDEO PROCESS CCA	3	B16
5998014496270	A3248230	VIDEO PROCESS CCA	3	B16
5998014496273	A3247167	CE/FI JUMPER CCA	3	B16
5998014496275	A3246943	DIGITIZER	2	B16
5998014496276	A3248240	EMI FILTER	3	B16
5998014496277	A3248170	PWR SP #1 & #3 CCA	4	B16
5998014496278	A3248250	POINT OF LOAD REG	2	B16
5998014496279	A3248310	INTERFACE CNTRL CCA	3	B16
5998014496280	A3248270	POWER SP #2 CCA	3	B16
5998014560999	12437140	PC CARD LOS AZ/EL (A12)	3	B14
5998014565344	12437139	PC LOS ANALOG (A11)	2	B14
5998014569846	12388865	DATA CNTL MOD CCA (A5)	1	AKZ
5998014637161	12388844-2	BACKPLANE ASSY	1	AKZ
5998014654319	12388907	CCA	1	AKZ

5998014657017	12388840-3	AIM	1	AKZ
5998014657019	12388841-2	I/O MODULE (A12)	2	AKZ
5998014657601	12388875	AUX PWR CNTL MOD A6	1	AKZ
5998014724769	12468720	BACKPLANE ASSY	1	B14
5998014731476	12438715-4	CCA, PANEL INTERFACE	2	B14
5998014737708	13226892-05	POWER CCA	1	B14
5998014836104	12467400	IC3 BACKPLANE	1	B14
5998014929050	12438190	CCA, A-5	2	B14
5998014929054	12467280	CCA, A-6	2	B14
5998014948755	12438715-6	CCA,PIM	2	B14
5998014965901	12438580-2	AEGR CCA	2	B14
5998014997959	12438701-2	GPP BASEBOARD	2	B14
5998015035867	12437138-3	CCA, (A10)	2	B14
5998219200980	12438739	GRAPHICS APP MEZZ	2	B14
5998219200982	12438702	SRAM MEM MEZZANINE	4	B14
5998219202475	12438729	1553 APP MEZZANINE	2	B14
5998219202481	12438755	SPEECH APP MEZZ	2	B14
5998219202729	12438706	DRAM MEMORY MEZZ	2	B14
5998219206152	12438726	BASECARD IC3 & CEU	2	B14
5998219210975	12467387	IC3 128MB MEM MEZZ	2	B14
5998219210990	12467390-3	IC3 INTEL CCA	2	B14
5999014440549	12977637	CITV EMI SHIELD ASSY	1	B14
6110014512013	12388870	HRSM	2	AKZ
6110014652800	57K4050	HPDU W/CONTAINER	1	AKZ
6120014690181	12388860-2	TRSM	2	B14
6130014440545	12978075	BICU HVPS	2	B14
6130014440557	12978120	AUX POWER SUPPLY	2	B14
6130014622048	12389088-2	POWER SUPPLY	2	B14
6130014653962	12438710-2	POWER SUPPLY ASSY	4	B14
6130014918629	12467391-2	IC3 POWER SUPPLY	2	B14
6150014506916	12388476-3	CABLE ASSEMBLY	2	B14
6150014506922	12388476-2	CABLE ASSEMBLY	2	B14
6150014506924	12388476-6	CABLE ASSEMBLY	2	B14
6150014506925	12388452-4	CABLE ASSEMBLY	2	B14
6150014506926	12388476-5	CABLE ASSEMBLY	2	B14
6150014512024	12388859	CABLE ASSY SPEC	1	AKZ
6150014512280	12388476-4	CABLE ASSEMBLY	2	B14
6150014887541	12467001	WIRING HARNESS	2	B14
6650014634564	A3248350-2	AFOCAL	3	B16
7025014697112	12438696	TACTICAL DISPLAY	2	B14
7025014830251	57K4091	MHA (MT HOUSE ASSY)	1	B14
7025014949652	12467380	UBIM	4	AKZ
N/A	12438458-3	AIR HANDLING UNIT W/CON	2	B14

ATTACHMENT 008

COMPONENTS OF END ITEMS (COEI)

ATTACHMENT 008

Contractor Furnished Components of End Item (COEI):

1. NSN 6650-01-320-5628, P/N 12357848, Periscope, armored vehicle - quantity 2 per tank.
2. NSN 6650-01-302-7684, P/N 12357846, Periscope, tank - quantity 2 per tank.
3. NSN 5340-00-158-3805, P/N AA59487-2S, Padlock - quantity 1 per tank.

PIIN/SIIN DAAE07-01-G-N001/0010
MOD/AMD 04
ATT/EXH ID Attachment 009
PAGE 1

ATTACHMENT 009

GOVERNMENT-FURNISHED SPECIAL TOOLS/SPECIAL TEST EQUIPMENT (STTE)

ATTACHMENT 009

ITEM #	NSN	QTY	NOMENCLATURE
1	4210-01-488-9655	4	DPSU (RECOV RECHARGE)
2	4940-01-467-2579	4	TMS, PURGE KIT
3	5120-01-367-3489	4	SCREWDRIVER ATTACHMENT

ATTACHMENT 010

PRE-EXISTING SYSTEM SPECIFICATION NON-CONFORMANCES

Attachment 010

Pre-Existing System Specification Non-conformances

IFCEU 400 Hz Power Supply EMI - Radiated Emissions (CE03)
IFCEU Bonds and Grounds
HPDU Bonds and Grounds
HPDU Shut down (LRU & 4 RPCS fail EMI)
HRSM - RPC Fails EMI (Trips due to Short)
HTPS Nuclear Hardness Failure
ILC/DDC DC-DC Converter Nuclear Hardness Failure
IFCEU - Nuclear Hardness Failure (dash 2 Power Supplies from Natel)

ATTACHMENT 011

PRE-EXISTING SOFTWARE TEST REPORTS

ATTACHMENT 012

SINGLE PROCESS ACCEPTANCE INITIATIVE DOCUMENT
PARTS I & II

ATTACHMENT 012
PART I

CHANGES IMPACTING THE PRIME ITEM
BUT NOT THE FIR

THESE ARE ALL CURRENTLY IN-PROCESS CHECKS

- Para. 4.2.1.2.3.11 (Emergency shift/fuel control bypass operation) Delete the hockey stick 4.
- Para. 4.2.1.2.5.2.1 (AFES Crew compartment) - Delete the hockey stick 4.
- Para. 4.2.1.2.5.2.2 (Automatic engine compartment first shot) - Delete the hockey stick 4.
- Para. 4.2.1.2.5.2.6 (AFES Lockout) - Delete the hockey stick 4.
- Para. 4.2.1.2.7.5.6 (Drivers thermal vision) - Delete the hockey stick 4.
- Para. 4.2.1.2.7.8.2 (DID test) - Delete the hockey stick 4.
- Para. 4.2.1.2.7.8.5.5 (Fuel maintenance) - Change the hockey stick 4 to a 6.
- Para. 4.2.1.2.7.8.5.5.1 (Purge fuel ON/OFF) - Change the hockey stick 4 to a 6.
- Para. 4.2.1.2.7.8.5.5.2 (Drain fuel On/OFF) - Change the hockey stick 4 to a 6.
- Para. 4.2.1.3.2.2 (Ready ammo doors) - Delete the hockey stick 4.
- Para. 4.2.1.3.2.3.1 (Ready doors) - Delete the hockey stick 4.
- Para. 4.2.1.3.2.3.2 (Semi-ready door) - Delete the hockey stick 4.
- Para. 4.2.1.3.2.5 (Door seal actuator box, and bulkhead flange leakage) Delete the hockey stick 4.
- Para. 4.2.1.3.2.6.1 (Door seal leakage) - Delete the hockey stick 4.
- Para. 4.2.1.3.2.6.2 (Door manual operating forces - Delete the hockey stick 4.
- Para. 4.3.1.4.3 (Hull ammo compartment blow-off panel sealant) - Delete the hockey stick 4.
- Para. 4.3.1.4.4 (Hull ammo compartment bulk-head welds) - Delete the hockey stick 4.
- Para. 4.3.1.4.5 (Bustle ammo compartment blow off panel seals) - Delete the hockey stick 4.

CHANGES IMPACTING THE PRIME ITEM
WHICH IMPACT THE FIR

- Para. 4.2.1.2.1.2 (Brightness adjust) Delete 100%.
- Para. 4.2.1.2.1.3 (Drivers seat) Delete the hockey stick 2.
- Para. 4.2.1.2.3.7.2 (Emergency shutdown) Change the 100% to a hockey stick 2.

Para. 4.2.1.2.3.10.1 (Fuel system slope) - Change the 100% to a hockey stick 2.

Para. 4.2.1.2.3.10.2 (Engine start on slope) Add a hockey stick 2. For 100%, drive vehicle up 60 % slope only, and on 40% slope, only on one side(the side up is left to the discretion of the driver). For Control Test, perform test as is currently being done on a 100% basis.

Para. 4.2.1.2.4.1.2 (Creep) Change the 100% to a hockey stick 2.

Para. 4.2.1.2.4.7 (Pivot (PVT) steer) Delete the hockey stick 2.

Para. 4.2.1.2.4.8 (Turning radius) Change the 100% to a hockey stick 2.

Para. 4.2.1.2.4.11 (Holding) Add a hockey stick 2. For 100%, drive vehicle up 60 % slope only. For Control Test, perform test as is currently being done on a 100% basis.

Para. 4.2.1.2.4.13.1 (Shallow water fording) Delete the hockey stick 2.

Para. 4.2.1.2.4.13.2 (Final drive contamination) Delete the hockey stick 2.

Para. 4.2.1.2.6.1 (Periscope washer and wiper) Delete the hockey stick 2.

Para. 4.2.1.2.7.1 (Main menu switch) Change the hockey stick 2 to a 6.

Para. 4.2.1.2.7.3.1.3 (NATO slave utility connector) Delete the hockey stick 2.

Para. 4.2.1.2.7.4 (Smoke generator) Delete the hockey stick 2.

Para. 4.2.1.2.7.6.4.2 (Previous waypoint) - Delete the hockey stick 2.

Para. 4.2.1.2.7.6.4.3 (Next waypoint) - Delete the hockey stick 2.

Para. 4.2.1.2.7.7.1.2 (Engine hours) Change the hockey stick 2 to a 6.

Para. 4.2.1.2.7.7.1.3 (Engine trim cal) - Change the hockey stick 2 to a 6.

Para. 4.2.1.2.7.7.2 (Diagnostics) - Change the hockey stick 2 to a 6.

Para. 4.2.1.2.7.7.4 (CMDR backup) - Change the hockey stick 2 to a 6.

Para. 4.2.1.2.7.7.4.1 (Position/navigation) - Change the hockey stick 2 to a 6.

Para. 4.2.1.2.7.7.4.1.1 (Manual position update) - Change the hockey stick 2 to a 6.

Para. 4.2.1.2.7.8 (Diagnostics) - Change the hockey stick 2 to a 6.

Para. 4.2.1.2.7.8.3.4 (Station tests) - Change the hockey stick 2 to a 6.

Para. 4.2.1.2.7.8.3.4.2.2 (LED brightness) Delete the hockey stick 2.

Para. 4.2.1.3.1.1 (Loaders seat) Delete the hockey stick 2.

Para. 4.2.1.3.2.1 (Loaders knee switch) Change the 100% to a hockey stick 2.

Para. 4.2.1.3.3.1.1 (Safe/armed) Change the 100% to a hockey stick 2.

Para. 4.2.1.4.1.1 (Gunners seat) Delete the hockey stick 2.

Para. 4.2.1.4.4.2.3 (Hull/turret position sensor operation) Change the hockey stick 2 to a 6.

Para. 4.2.1.4.4.3 (Fire control ballistic accuracy) Delete the hockey stick 2.

Para. 4.2.1.4.5.3.6 (Frequency response) Delete the 100%.

Para. 4.2.1.4.5.3.7 (Lead system) Change the hockey stick 4 to a 6.

Para. 4.2.1.4.5.3.8 (Sight laying) Change the hockey stick 2 to a 6.

Para. 4.2.1.4.5.3.9 (Gun laying on moving target and tracking accuracy) Delete the hockey stick 2.

Para. 4.2.1.4.6.1.1 (MRS update) Change the hockey stick 4 to a 6.

Para. 4.2.1.4.6.2.2 (Zero) Change the hockey stick 4 to a 6.

Para. 4.2.1.4.6.2.3 (Battlesight) - Change the hockey stick 4 to a 6.

Para. 4.2.1.4.6.2.4 (Ammunition sub-designation code) Delete the hockey stick 4.

Para. 4.2.1.4.6.4.4 (Hull/turret position) Change the hockey stick 2 to a 6.

Para. 4.2.1.4.6.5.3 (Fire control circuit breakers) Delete the hockey stick 4.

Para. 4.2.1.4.6.5.3.1 (Off) Delete the hockey stick 4.

Para. 4.2.1.4.6.5.3.2 (On) - Delete the hockey stick 4.

Para. 4.2.1.4.6.5.3.3 (Fire control CB reset) Change the hockey stick 4 to a 6.

Para. 4.2.1.4.6.5.3.4 (Weapon CB on) Change the hockey stick 4 to a 6.

Para. 4.2.1.4.6.5.4.2.1 (GPS plumb/sync) Change the hockey stick 2 to a 6.

Para. 4.2.1.4.6.5.4.2.2 (Ballistic solution check) Change the hockey stick 2 to a 6.

Para. 4.2.1.4.6.6.1 (Auxiliary pump) Change the 100% to a 6.

Para. 4.2.1.4.6.6.2 (Loader DTV) Change the hockey stick 2 to a 6.

Para. 4.2.1.4.6.6.3 (Turret circuit breakers) Delete the hockey stick 4.

Para. 4.2.1.4.6.6.3.1 (Off) Delete the hockey stick 4.

Para. 4.2.1.4.6.6.3.2 (On) Delete the hockey stick 4.

Para. 4.2.1.4.6.6.3.3 (Turret circuit breaker reset) Change the hockey stick 2 to a 6.

Para. 4.2.1.4.6.7 (Diagnostics) Delete the 100%.

Para. 4.2.1.4.6.7.3.3 (Station tests) Change the hockey stick 2 to a 6.

Para. 4.2.1.4.6.7.3.3.3 (Screen test) Delete the 100%.

Para. 4.2.1.4.6.7.5.3 (CDEU OFF/ON) Change the 100% to a hockey stick 6.

Para. 4.2.1.4.6.8 (Brightness adjust) Delete the hockey stick 4.

Para. 4.2.1.4.7.1 (Ammunition select) Delete the hockey stick 4.

Para. 4.2.1.4.7.6 (Palm and trigger switches) Delete the 100%.

Para. 4.2.1.4.8.1 (Operation) Delete the 100%.

Para. 4.2.1.5.1 (Commanders seat) Delete the hockey stick 2.

Para. 4.2.1.5.5.2 (Weapon slewing) Change the hockey stick 4 to a 2.

Para. 4.2.1.5.5.3 (Slew stop override) Change the hockey stick 4 to a 2.

Para. 4.2.1.5.5.4 (Equilabrator) Change the hockey stick 4 to a 2.

Para. 4.2.1.5.7.3.6 (Sector limits) Change the hockey stick 2 to a 6.

Para. 4.2.1.5.7.4.2 (Ammo selection) Change the hockey stick 2 to a 6.

Para. 4.2.1.5.7.4.2.1 (Air/ground target selection) Change the hockey stick
2 to a 6.

Para. 4.2.1.5.7.5 (Navigation system) Delete the 100%.

Para. 4.2.1.5.7.5.2 (Position/navigation) Change the 100% to a 6.

Para. 4.2.1.5.7.5.2.4 (Manual position update) Change the hockey stick 2
to a 6.

Para. 4.2.1.5.7.5.2.5 (DATUM/Spheroid select) Change the hockey stick 2
to a 6.

Para. 4.2.1.5.7.5.5.1 (CDEU compass) Change the hockey stick 2 to a 6.

Para. 4.2.1.5.7.6.1 (System clock) Delete the 100% and the hockey stick 2.

Para. 4.2.1.5.7.6.1.2 (Alarm clock) Change the 100% to a hockey stick 6.

Para. 4.2.1.5.7.7.6.1 (Tone setup) Change the 100% to a hockey stick 6.

Para. 4.2.1.5.7.7.6.1.1 (Caution/Advsy Off/ON) Change the 100% to a
hockey stick 6.

Para. 4.2.1.6.2.6.3 (Map brightness and contrast) Delete the 100%.

Para. 4.2.1.7.1.3 (System data re-entry) Change the 100% to a hockey
stick 6.

Para. 4.2.1.7.1.3.1 (Enter data) Change the 100% to a hockey stick 6.

Para. 4.2.1.7.1.3.2 (Save) Change the 100% to a hockey stick 6.

Para. 4.2.1.7.1.3.3 (Page down) Change the 100% to a hockey stick 6.

Para. 4.2.1.7.1.3.4 (Page up) Change the 100% to a hockey stick 6.

Para. 4.2.1.7.1.3.1 (Enter data) Delete the hockey stick 2.

Para. 4.2.1.7.3.4 (Station tests) Change the hockey stick 2 to a 6.

Para. 4.2.1.7.3.4.2.4 (CDU switch legend Backlighting brightness)
Change the hockey stick 2 to a 6.

Para. 4.2.1.7.3.4.2.6 (MMU activity indicator LEB brightness) Change the hockey stick 2 to a 6.

Para. 4.2.1.8.2 (Imagery adjustments switch operation) Change the hockey stick 2 to a hockey stick 4 and a hockey stick 6.

Para. 4.2.1.8.2.1 (Sector limits adjust) Change the hockey stick 2 to a 6.

Reduce the low speed portion of the 30 mile road test from a total distance of 10 miles to 5 miles.

CHANGES IMPACTING THE FIR

BUT NOT THE PRIME ITEM

Deleting 140 out of 298 visual inspections in Section D of the FIR.

Removing the S/W check in Section G (Shipping) of the FIR.

CEEP UNIQUE TESTS

Adding five (5) 100% functional tests to the Prime Item and FIR.

ATTACHMENT 013

SINGLE PROCESS ACCEPTANCE INITIATIVE DOCUMENT
PART I COMPLETION CERTIFICATION

Vehicle no.:_____

Turret no.:_____

SPAID PART I RECORD CERTIFICATION

I certify on behalf of General Dynamics Land Systems Division that the vehicle(s) identified herein have been properly cleaned and have successfully passed all inspections and tests as specified in the Part I of the SPAID - except as noted below.

Any known FIR or Prime Item Specification non-conformance(s) that are not indicated as being carried over to Prep and Ship department for correction have received Government approved disposition via non-conformance documents within this logbook or via the following RFW(s) / RFD(s).

TDA03D600
3.5.2.2 Software

TDA02D500
Harness Guide

The undersigned verifies that the vehicle is ready for Government Evaluation.

Date

Vehicle accepted by government and ready for final paint.

Government Stamp:_____